



BARNARD COLLEGE

1992-93 CATALOGUE

College Catalog

1992-93 Catalog

BARNARD COLLEGE

The College

THE LIBERAL ARTS COLLEGE FOR WOMEN
AFFILIATED WITH COLUMBIA UNIVERSITY

Academic Programs and Courses

The Liberal Arts College for Women at Columbia

Student Life

"Barnard College: A Liberal Arts College for Women"

Student Activities

Student Council

Student Organizations

Student Government

Student Union

Student Apartments and Housing

Student Exchange

Student Study Programs

Student Employment

Student Financial Aid

Student Health Services

Student Services

Student Transportation

Student Organizations

Student Travel and Study

Student Life

Student Activities

Student Council and Student Government

Student Organizations

Student Study Programs and Exchange

Student Life

Student Financial Aid

Student Health Services

Student Transportation and Commuting

Student Services

Student Services

Student Activities

Student Study Programs and Exchange

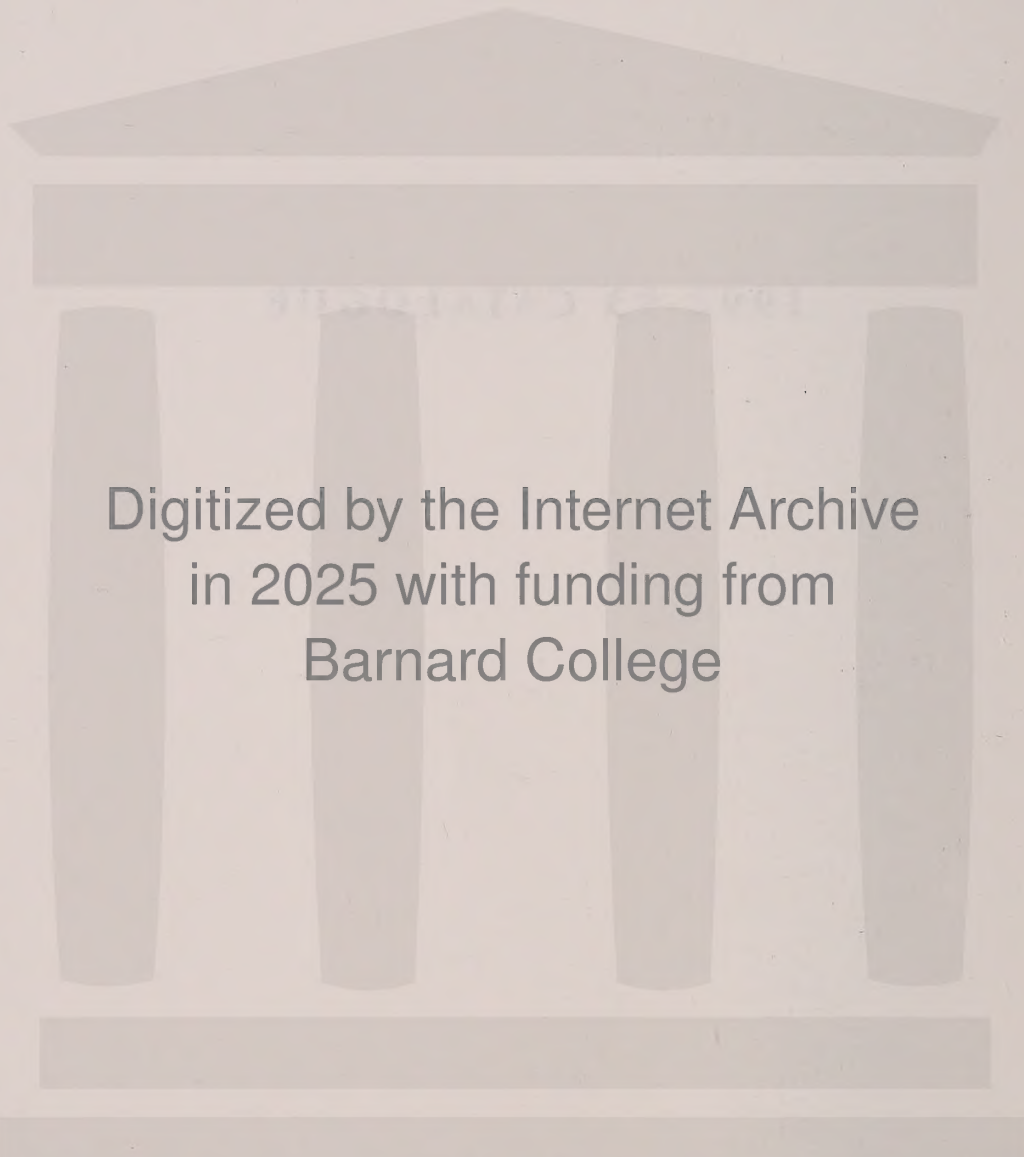
Student Health Services

Student Transportation

Student Life

Student Financial Aid

Student Health Services



Digitized by the Internet Archive
in 2025 with funding from
Barnard College

TABLE OF CONTENTS

College Calendar	6
1992-93 Calendar	8
Directory	9
The College	10
The Campus	12
Wollman Library	12
Academic Computer Center	13
The Barnard Center for Research on Women	13
Student Life	14
Student Government and Organizations	14
Sports and Athletics	14
Student Conduct	15
Housing	16
Admission	18
First-Year Application Procedures	18
Early Decision	19
Centennial Scholars Program	19
Deferred Enrollment	20
International Students	20
Transfer Students	20
Visiting Students	21
Advanced Placement	21
Financial Information	23
Annual Tuition and Fees	23
Financial Aid	26
Academic Advising	27
Class Deans and Advisers	27
Transfer Advisers	27
International Student Adviser	27
Study Leaves	28
Pre-Professional Advising	28
Graduate School Advising	28
Higher Education Opportunity Program	28
Resumed Education	28
Student Services	29
Career Services	29
Program for Students with Disabilities	29
Student Health Services	30
Resident Assistants	30
Commuters	30
Recommendations	30
Student Records and Information	30

TABLE OF CONTENTS

The Curriculum	31
Requirements for the A.B. Degree	31
Major Requirements	31
General Education Requirements	31
Distribution Requirements	34
Electives	35
Physical Education Requirement	35
Length of Residence	35
Requirements for Transfer Students	36
Transfer Credit	36
Classification of Students	36
Filing of Diploma Name Cards	37
Other Academic Opportunities	38
Minor	38
Senior Scholar Program	38
Centennial Scholars Program	38
Writing Fellows Program	39
Pre-Professional Program Planning	39
Summer Study	40
Study Abroad	41
Study at Jewish Theological Seminary	42
Study at the Juilliard School and the Manhattan School of Music	42
Double and Joint Degree Intrauniversity Programs	43
Auditing	45
Registration	46
Program Filing	46
Adding and Dropping Courses	47
Attendance	48
Withdrawal and Readmission	48
Exceptions to College Regulations	48
Examinations	49
Placement Examinations	49
Make-Up Examinations During the Term	49
Final Examinations	49
Deferred Examinations	50
Examinations for Students with Disabilities	50
SAT, GRE, and LSAT Examinations	50
Grading and Academic Honors	51
Grading System	51
Grade Reports	51
Pass/D/Fail Option	52
Incompletes and Early Incompletes	52
Dean's List	53
Transcripts	53
Honors	53
Phi Beta Kappa	54
Courses of Instruction	55
American Studies	56
Ancient Studies	59
Anthropology	60
Architecture	68
Art History	71

TABLE OF CONTENTS

Asian and Middle Eastern Cultures.....	79
Biological Sciences.....	86
Biopsychology.....	95
Chemistry.....	96
Classics.....	102
Computer Science.....	109
Dance.....	115
Economics.....	120
Economic History.....	127
Education.....	128
English.....	132
Environmental Science.....	141
First-Year Seminar Program.....	144
Foreign Area Studies.....	151
French.....	153
German.....	162
History.....	166
Italian.....	174
Linguistics.....	177
Mathematics.....	180
Medieval and Renaissance Studies.....	186
Music.....	189
Pan African Studies.....	196
Philosophy.....	197
Physical Education.....	202
Physics and Astronomy.....	206
Political Science.....	213
Psychology.....	222
Quantitative Reasoning Program.....	230
Religion.....	231
Russian.....	237
Sociology.....	241
Spanish.....	246
Statistics.....	252
Theatre.....	255
Urban Affairs.....	260
Women's Studies.....	262
Trustees.....	268
Faculty.....	269
Administration.....	278
Associate Alumnae.....	283
Barnard Alumnae Admissions Representatives.....	284
Scholarship and Loan Funds.....	288
Honors.....	295
Statistics.....	300
Maps.....	301
Index.....	303

COLLEGE CALENDAR 1992-93

AUTUMN TERM — ONE HUNDRED AND FOURTH YEAR

First-year and transfer student registration.....	Sept. 3, 4 (Th, F)
Language Placement Examinations.....	Sept. 4 (F)
Upperclass registration.....	Sept. 8-10 (Tu-Th)
Classes begin 9 a.m.	Sept. 8 (Tu)
Last day to submit work for courses in which grades of I were given in the Spring Term 1992.....	Sept. 8 (Tu)
Deferred examinations for students absent from May 1992 final examinations in Barnard courses. Deferred examinations for C, F, G, W, and other Columbia courses must be taken before the end of the semester.	Sept. 11, 14 (F, M)
Program filing. Last day to file Autumn Term programs 5 p.m.	Sept. 18 (F)
Last day to add a course	Sept. 18 (F)
Last day to file diploma name cards for the degree in February 1993.....	Oct. 8 (Th)
Midterm Date	Oct. 27 (Tu)
Awarding of October degrees.....	Oct. 28 (W)
Academic holiday	Nov. 2 (M)
Election Day holiday	Nov. 3 (Tu)
Major examinations for February graduates.....	Nov. 11-13 (W-F)
Required meetings for planning programs.....	Nov. 12 (Th)
Program planning and sign-up period for all students	Nov. 12-Dec. 3 (Th-Th)
Last day to drop a course	Nov. 19 (Th)
Last day to file requests for pass/fail grades	Nov. 19 (Th)
Thanksgiving holidays	Nov. 26-29 (Th-Sun)
Last day for first-year students and first-semester sophomores to file tentative Spring Term programs with the Registrar	Dec. 3 (Th)
Optional reading day	Dec. 14 (M)
Required reading day.....	Dec. 15 (Tu)
Last day to file a request for an Incomplete. In a course where final paper is due on an earlier date, request must be filed no later than the day before the paper is due.	Dec. 15 (Tu)
Last day for payment of bill for Spring Term.....	Dec. 15 (Tu)
Midyear Examinations Begin	Dec. 16 (W)
Autumn Term ends	Dec. 23 (W)
Winter recess	Dec. 24-Jan. 17, 1993 (Th-Sun)

SPRING TERM — ONE HUNDRED AND FOURTH YEAR

Deferred examinations for students absent from December 1992 final examinations in Barnard courses. Deferred examinations for C, F, G, W, and other Columbia courses must be taken before the end of the semester.	Jan. 14, 15 (Th, F)
Registration	Jan. 15, 19, 20 (F, Tu, W)
Last day to submit work for courses in which grades of I were given in the Autumn Term 1992	Jan. 15 (F)
Language Placement Examinations	Jan. 15 (F)
Martin Luther King Day holiday	Jan. 18 (M)
Classes begin 9 a.m.	Jan. 19 (Tu)
Program filing. Last day to file Spring Term programs 5 p.m.	Jan. 29 (F)
Last day to add a course	Jan. 29 (F)
Last day to file diploma name cards for the degree in May 1993 or October 1993	Jan. 29 (F)
Awarding of February degrees	Feb. 10 (W)
Last day to submit 1993-94 Senior Scholar applications	Feb. 25 (Th)
Midterm Date	Mar. 11 (Th)
Spring holidays	Mar. 13-21 (Sat-Sun)
Last day to drop a course	Mar. 25 (Th)
Last day to file requests for pass/fail grades	Mar. 25 (Th)
Major examinations for May and October graduates	Mar. 31-April 2 (W-F)
Required meetings for planning programs	April 8 (Th)
Program-planning and sign-up period for all students	April 8-29 (Th-Th)
Last day to file application for 1993-94 financial aid	April 15 (Th)
Last day for sophomores to declare major choices	April 15 (Th)
Last day to withdraw from a course	April 29 (Th)
Phi Beta Kappa-Honors Convocation	April 29 (Th)
Last day for first-year students to file tentative Autumn Term programs with the Registrar	April 29 (Th)
Last day to file a request for an Incomplete. In a course where final paper is due on an earlier date, request must be filed no later than the day before the paper is due	May 3 (M)
Required reading period	May 4-6 (Tu-Th)
Final Examinations Begin	May 7 (F)
Spring Term ends	May 14 (F)
Baccalaureate Service	May 16 (Sun)
Presentation of Barnard Degree Candidates	May 18 (Tu)
Conferring of Degrees	May 19 (W)
Last day to file application for deferred examinations in Barnard courses	May 21 (F)
Last day to submit to the Registrar work from Spring Term 1993 for removal of I	June 8 (Tu)
Classes begin 9 a.m.	Sept. 7 (Tu)

DIRECTORY

Information	854-5262
104 Barnard	
Office of Admissions	854-2014
111 Milbank	
Advisers, Class	854-2024
105 Milbank	
Office of Alumnae Affairs	854-2005
224 Milbank	
Barnard Center for Research on Women	854-2067
101 Barnard	
Bursar	854-2026
15 Milbank	
Office of Career Services	854-2033
11 Milbank	
Office of College Activities	854-2096
209 McIntosh	
Dean of the Faculty	854-2708
110 Milbank	
Dean of Student Life	854-3095
210 McIntosh	
Dean of Studies	854-2024
105 Milbank	
Dining Services	854-2129
Lower Level Hewitt	
Disability Services	854-4634
7 Milbank	(Voice/TDD)
Financial Aid	854-2154
14 Milbank	
Health Services	854-2091
Lower Level Brooks	
Higher Education Opportunity Program (HEOP)	854-3583
5 Milbank	
Housing Office	854-3040
203/205 Sulzberger	
International Student Advisers	854-2024
105 Milbank	
Study Abroad.....	854-2096
105 Milbank	
President's Office	854-2021
109 Milbank	
Registrar	854-2011
107 Milbank	
Security	854-3362
104 Barnard	
Special Academic Programs	854-8866
8 Milbank	
Office of Summer Programs	854-8021
11 Lehman	
Student Mail	854-2095
McIntosh	
Transfer Student Services	854-2024
105 Milbank	
Transcript Service	854-2012
107 Milbank	
Women's Counseling Project	854-3063
Reid Hall	

THE COLLEGE

Barnard is a selective liberal arts college for women, affiliated with Columbia University and integrally related to its hometown of New York City. Barnard is committed to the liberal arts and sciences—a commitment reflected in its curriculum and in the atmosphere of learning and scholarship that permeates its campus.

As a university college in an international city, Barnard offers an education enriched immeasurably by the vast social and cultural resources of New York and the intellectual resources of Columbia, located just across the street.

More than sixty years ago, Nicholas Murray Butler, one of Columbia's great presidents, observed: "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is itself a liberal education." Today the city remains an extension of the campus, used by every department to enhance the relationships of learning to living.

The College seeks women who will benefit most from the Barnard experience: diverse, motivated and curious young women who will draw from its deep well of opportunity and contribute to its stimulating community.

BARNARD'S HISTORY

Barnard College was among the pioneers in the late 19th-century crusade to make higher education available to young women.

The College grew out of the idea, first proposed by Columbia University's tenth president, Frederick A.P. Barnard, that women share in the opportunity for higher education at Columbia. The idea, initially ignored, led to the creation of a "Collegiate Course for Women." Under the plan, highly qualified women were authorized to follow a prescribed course of study leading ultimately to Columbia University degrees, but no provision was made for where and how they were to pursue their studies. This arrangement was soon abandoned and six years later Columbia's trustees agreed to the establishment of an affiliated college for women. A provisional charter was secured and Barnard College named in honor of its most persistent advocate.

In October 1889, the first Barnard class met in a rented brownstone house at 343 Madison Avenue. Fourteen students enrolled in the School of Arts and twenty-two "specials," lacking the entrance requirements in Greek, enrolled in science. There was a faculty of six.

Nine years later Barnard moved to its present site on Morningside Heights. In 1990 Barnard was included in the educational system of Columbia University with provisions unique among women's colleges: it was to be governed by its own Trustees, Faculty and Dean, and was responsible for its own endowment and facilities, while sharing instruction, the library and the degree of the University.

BARNARD TODAY

From the original fourteen students, enrollment has grown to 2,100, with over 27,000 Barnard students awarded a degree since 1893. Barnard's faculty of 245 men and women are teacher-scholars whose paramount concern is the education of undergraduate students and whose professional achievements bring added vitality to the classroom.

Barnard's liberal education is broad in scope and demanding. The curriculum includes a series of general education requirements—a program of courses the Faculty believes provides a stimulating and thorough education while remaining flexible and varied enough to suit a student's own interests, strengths and talents. Classes vary in size. Those in which

student participation is important are small. There are opportunities for independent work and students may be invited to work on research projects with faculty members.

In 1988 Barnard College and Columbia University amended and extended the long-standing agreement for cooperation between the institutions. Barnard stands as an independent college for women with its own curriculum, faculty, admissions standards, graduation requirements, trustees, endowment and physical plant. At the same time, Barnard and Columbia share resources, thereby giving students open access to the courses, facilities and libraries of both schools. Barnard and Columbia students also share in a variety of extracurricular activities and social lives.

From its inception Barnard's foremost commitment has been to the academic, personal and professional success of women. Students benefit from an atmosphere in which over half of the tenured faculty are women, and women are well-represented in the administration. The college is led by Ellen V. Futter, a 1971 graduate who ten years ago became one of the youngest college presidents in history. At Barnard, women are given the opportunities and the freedom to lead both in and out of the classroom, to develop the skills that equip them to lead throughout their lives.

Barnard's unique relationship with Columbia—as well as its ties to several of Columbia's graduate schools and its programs with premier New York City institutions including the Juilliard School, the Manhattan School of Music, the Jewish Theological Seminary of America and Teachers College—gives students an unusual range of educational options. Academic organizations within and beyond the University offer vital opportunities for research, study, studio experience, career internships, and community service.

Barnard has a high student retention rate, an indication of their satisfaction with their college experience. Barnard students also enjoy leaves for study, travel and internships. Every year Barnard admits about 100 transfer students, who come to take advantage of the educational opportunities available to Barnard women.

Every year the Office of Career Services collects and summarizes information about post-baccalaureate study and employment. In the first year after graduation, 25% of those who receive the degree enter full-time graduate or professional study at once, with the largest proportions opting for medical schools (6-7%), law schools (7-9%), and business schools (1-2%). The rest obtain employment in business and industry, the arts, communications, teaching, social services, and other fields.

The Barnard campus occupies four acres of urban property along Broadway between 116th and 120th Streets. At the southern end of the campus, four residence buildings, including the College's newest building, Sulzberger Hall, form an enclosed quadrangle.

Barnard Hall is just north of the "Quad" and contains seminar rooms, classrooms, and faculty offices, as well as a gym, a swimming pool, and dance studios. The Sulzberger Parlor on the third floor is used for meetings and small social events.

Adele Lehman Hall contains the Wollman Library and two floors of faculty offices and classrooms. The library includes the reserve room and the Academic Computing Center on the first floor; the reference area, periodicals, microforms, and open book stacks on the second floor; and on the third floor, audiovisual facilities, and more open stacks. Computer facilities for the Economics and Political Science departments are also located in Lehman. The building overlooks a lawn surrounded by trees and shrubs.

Helen Goodhart Altschul Hall and the Millicent McIntosh Center, which were dedicated jointly in November 1969, face each other across an open plaza. The fourteen stories of Altschul Hall are devoted primarily to the sciences and mathematics. Herbert H. Lehman Auditorium is on the first floor. The headquarters for student activities, a snack bar and a lounge are located in the McIntosh Center, as well as student mailboxes, music practice rooms, recreation and television rooms, bowling alleys, an art exhibit area, and the Jean T. Palmer Room for conferences.

Milbank Hall occupies the northern extreme of the campus and houses administrative and faculty offices, classrooms, a greenhouse, and the Minor Latham Playhouse, a small well-equipped modern theater. The language departments maintain social and reading rooms in Milbank Hall.

In the immediate neighborhood, Barnard maintains additional residence halls, including Plimpton Hall, completed in 1968; 49 Claremont Avenue, renovated in 1982; and 600, 616, and 620 West 116th Street, all apartment buildings.

Columbia University is directly across Broadway.

WOLLMAN LIBRARY AND OTHER LIBRARY RESOURCES

The Wollman Library occupies the first three floors of Adele Lehman Hall. The main collection of more than 160,000 volumes, arranged on open shelves, contains books and microforms selected to cover curricular requirements and provide opportunities for independent work in many fields. A large collection of music and spoken records, a wide selection of periodicals and journals, and a growing collection of videotapes supplement the book collection. There are facilities for the use of records and videotapes, and the reading areas contain individual study carrels. The first floor houses a collection of material used in current courses.

Special collections in the library include the Barnard Archives, a historical collection of official and student publications, documents, letters, and photographs from Barnard's founding in 1889 to the present; the Alumnae Collection of works by former Barnard students; the personal library of the Nobel Prize-winning Chilean poet Gabriela Mistral; the Overbury Collection of 3,300 books and manuscripts by and about American women authors; and a small rare book collection. The library has an especially strong collection in women's studies, supplemented by the resource collection of the Barnard Center for Research on Women. A separate Chemistry Reading Room is located in Altschul Hall.

When the College is in session the main library is open seven days a week providing a full range of services. The Reference Department offers an instruction program to help each student develop efficient library skills. In addition to the standard printed research materials, the library provides many electronic information sources. Ten workstations

support computerized periodical indexes and electronic texts such as the CD-ROM *Oxford English Dictionary*. All recently acquired items in the library collection are included in Columbia University's on-line catalog. The Media Services Department provides additional support for the instructional program.

Barnard students also have access to all Columbia University libraries with over 6 million books, 3.5 million microforms, and over 58,000 serial and periodical listings, and to the libraries of Teachers College and Union Theological Seminary. In addition to these campus libraries, students may use the many libraries and collections in the metropolitan area, some open to the public and others accessible by special arrangement.

Barnard students may use a Kurzweil Reader available through the Columbia University Library.

THE ACADEMIC COMPUTING CENTER

The Academic Computing Center (ACC) provides computing resources to all Barnard students. The ACC maintains the Barnard computer network and operates three computer laboratories. The main lab, located at 112 Lehman Hall, houses IBM and Macintosh computers as well as laser and dot-matrix printers. Student consultants are available at the Lehman lab to assist students with any questions or problems they may have. Additional facilities are located in the Sulzberger and Brooks residence halls. All computers located in ACC labs connect to CLIO (on-line library information) and all Columbia instructional computers. There are currently seventy-five public access computers on campus.

Academic computing also offers workshops throughout the academic year. Topics include word processing, spreadsheet, database and graphics software, and an introduction to computers session.

THE BARNARD CENTER FOR RESEARCH ON WOMEN

The Barnard Center for Research on Women, located in 101 Barnard Hall, was founded in 1971 to express Barnard's longtime commitment to women and to show Barnard's enthusiasm for the new women's movement. Today, the center is a nationally recognized research institute that extends its resources to all members of the Barnard community as well as to the public.

Through a wide range of programs, conferences, lectures, and seminars, the Center generates and publicizes advanced research in feminist scholarship, and attracts to Barnard outstanding women in public life.

The series *Speaking of Women...* each week brings Barnard faculty, outside scholars, and activists to the Center for informal discussions on a wide range of women's issues. The Reid Lectureship features a series of talks and seminars by distinguished women in public life and the arts who have shown a significant commitment to improving the lives of all women. The Scholar and the Feminist, a day-long, semi-annual conference, addresses the conjuncture of feminist scholarship and activism in women's issues. To provide the results of the research and experience presented in the Center's conferences and lectures, the Center publishes *The Barnard Occasional Papers on Women's Issues*.

The Center's collection and reading room are an important resource for members of the Barnard community and for the general public. Students regularly use the Center as a meeting place, as do faculty and staff.

The collection contains thousands of books concerning women and gender, and subscribes to over one hundred feminist periodicals. Collections of published articles; unpublished articles; newspaper clippings; special newsletters and reports; information on local, national, and international women's organizations; and materials about women's studies programs throughout the country round out the collection.

STUDENT LIFE

Barnard students soon discover that their classmates are among the principal resources of their undergraduate years. Cosmopolitan in nature, the student population includes residents of nearly every state and some fifty foreign countries as well as those who live within commuting distance. Diversity is one of the few generalizations that can be made safely about Barnard students; a mingling of economic, regional, ethnic, and cultural groups is evident in campus life. Nine out of ten students live in college housing and participate in the educational programs, cultural events and social activities of their residence halls.

STUDENT GOVERNMENT AND CAMPUS ORGANIZATIONS

Student participation in the governance of the College and in shaping student life on campus is a time-honored tradition at Barnard. College committees, on which students, faculty, and administrators serve, recommend policy and procedural changes in such areas as curriculum, housing, and college activities. Students are the majority members on Honor Board and Judicial Council. Two students serve as representatives to the Board of Trustees.

All Barnard students are members of the Student Government Association, which elects a representative government and sponsors extracurricular activities and special events reflecting the range of cultural, political, pre-professional, and academic interests of the student body. These groups, more than 80 in all, include theatre and vocal music groups, ethnic organizations, language clubs, community service groups, and yearbook and literary magazine staffs. The student newspaper, *Barnard Bulletin*, is published weekly. Students with a variety of talents collaborate to produce Winter and Spring Festivals featuring concerts, theatre and dance performances, art exhibitions, and social events.

Student activities are centered in McIntosh Student Center which houses the Student Government Association and other organizations' officers. The Center also includes the student mail room, a snack bar, lounges, music practice rooms, dark room, computer publications room, pottery studio, bowling alleys, and the student store. The McIntosh Ticket Booth offers students the opportunity to attend professional dance, theatre, and opera in New York at reasonable prices. Students in many academic disciplines supplement course work with department-sponsored programs, lectures and performances during the school year.

In the residence halls, student Hall Councils plan social events and establish certain policies and procedures for use of public spaces and rules of conduct for residents, other members of the community and guests.

Cooperation among Barnard and Columbia groups is common. Many activities such as the University's chorus and its orchestra, its radio station, and a community service program enlist members from both campuses. Religious organizations and activities with headquarters on the Columbia University campus at Earl Hall encompass nearly every faith and are open to all students. Urban New York, a joint Barnard-Columbia program, offers unusual opportunities for students, faculty, and staff to experience together the cultural, political, and social life of the city.

SPORTS AND ATHLETICS

The Columbia University/Barnard College Athletic Consortium (Division I of the NCAA) sponsors eleven women's varsity teams including Archery, Basketball, Crew, Cross Country, Fencing, Soccer, Swimming and Diving, Tennis, Indoor and Outdoor Track and Field, and Volleyball. The Athletic Consortium is just one of three in the nation and the only one on a Division I level. Women students at Barnard College along with women enrolled at the undergraduate divisions of Columbia University have the opportunity to

compete on all university-wide teams. Scheduled competition includes schools in the Ivy League, Seven Sisters, the metropolitan area, and the eastern region. Individuals and teams have the opportunity to advance to state, regional, and national competition.

For students interested in less competitive programs, the Physical Education Department offers an extensive program of intramurals, recreation, and club sports. The program features badminton, basketball, bowling, fencing, indoor soccer, wiffleball, tennis, volleyball, open gym time, recreational swimming, sports clubs, open weight room hours, and special events.

Students have excellent facilities available for recreation and intercollegiate team practice and competition. Barnard facilities include a swimming pool, gymnasium, running track, fencing and dance studios in Barnard Hall, and tennis courts just one block away in Riverside Park. Barnard students have access to all recreational and athletic facilities of the University as well. The Dodge Fitness Center includes the Levien Gymnasium with a seating capacity of 3,499; the eight-lane Uris Swimming Center; 17 squash and handball courts; a well-equipped training room; locker rooms and sauna. Women's intercollegiate and club teams also use outdoor facilities at Baker Field, a 26-acre complex at the northern tip of Manhattan that includes a new 20,000-seat stadium, with an eight-lane, all-weather, NCAA-regulation running track, and practice fields. There are seven composition tennis courts and a modern tennis club-house; facilities for crew, and a spacious field house.

STUDENT CONDUCT

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life and is enforced by an Honor Board that has a membership of students and faculty members. The Judicial Council of undergraduates, faculty, and administrators recommends disciplinary action for non-academic offenses and acts on appeals of academic disciplinary sanctions determined by the Honor Board. Hall Councils comprising students recommend disciplinary action for violation of residence hall rules. A more complete explanation of the system may be found in the *College Calendar* and *Student Handbook*.

Each student who registers at Barnard agrees to maintain the Honor Code, which states:

We, the students of Barnard College, resolve to uphold the honor of the College by refraining from every form of dishonesty in our academic life. We consider it dishonest to ask for, give, or receive help in examinations or quizzes, or to use any papers or books not authorized by the instructor, or to present oral or written work that is not entirely our own, except in such a way as may be approved by the instructor. We consider it dishonest to remove without authorization, alter, or deface library and other academic materials. We pledge to do all that is in our power to create a spirit of honesty and honor for its own sake.

Library regulations and independent study courses are also governed by the code.

Policies and regulations concerning student conduct are recommended by student, faculty, and administrative committees to the area Vice President, the President, and the Board of Trustees. Hearing and appeal procedures are also outlined in the *College Calendar* and *Student Handbook*. Decisions may be subject to review and final disposition by the President.

Enrollment in the College, award of academic credit, and conferral of the degree are subject to disciplinary powers vested by the Barnard Board of Trustees in appropriate officers of instruction and of administration and in College committees.

HOUSING

Barnard strives to maintain as diversified a housing program as possible. Residential options include traditional residence halls, suite arrangements, and apartments in College-owned buildings on or adjacent to the campus. In a cooperative exchange with Columbia College and the School of Engineering and Applied Sciences, some 200 spaces are available for those who choose coeducational arrangements. In addition, some students live in independent housing they secure in the campus vicinity. The College offers all incoming first-year students the opportunity to elect to live in campus housing. In all, about 90% of the student body live in College housing and some 10% choose to live off campus. Policies regarding eligibility for housing and manner of assignments are formulated by the College Housing Committee, with a membership of students, faculty, and administrators.

FACILITIES

The College provides in its residence halls supervision under the direction of the Dean of Student Life. This includes resident directors, graduate and undergraduate student assistants, twenty-four-hour desk attendant coverage, and regular security guard patrols.

Brooks, Hewitt, Reid, and Sulzberger Halls, or the "Quad," at the south end of the campus, are operated as a single complex with space for about 930 students. Sulzberger Hall, opened in 1988, completed this residential complex and provides community amenities as well, including a cafe open until 1:00 A.M. Reid Hall and the first eight floors of Sulzberger Hall are all-female buildings housing first-year students who are assigned to double rooms. Brooks and Hewitt are predominantly upperclass traditional dormitories. There are also eight wheelchair-accessible, modified rooms located in Hewitt. The "Tower," floors nine through 16 of Sulzberger Hall, houses seniors and juniors in suites with lounges and kitchenettes.

"616" West 116th Street, an apartment-style residence directly across the street from the Quad, provides housing for 207 students in suites of single and double rooms. Each suite has a kitchen and a bath.

"600" and "620" West 116th Street are College-owned buildings comprising student apartments of one to five single or double rooms with kitchen and bath, and apartments for community residents.

49 Claremont Avenue, a renovated building adjacent to the west side of campus, houses 131 students. Rooms are on common corridors in suites with shared baths, kitchenettes and lounges.

Plimpton Hall, an apartment-style residence hall on Amsterdam Avenue and West 121st Street, a short walk from the main campus, provides housing for 280 students in suites of five single rooms. Each suite has a kitchen and bath.

ELIGIBILITY

Eligibility criteria have been established in order to assign available space on an equitable basis. These regulations may be changed as needed at the discretion of the College, but insofar as possible the following criteria will determine eligibility:

1. A student must be registered for a full academic program. Exceptions may be made upon review of appeals submitted to the Dean of Studies and the Dean of Student Life.
2. A student receives "Resident" classification and priority if the principal residence of her parent or legal guardian is in the geographic area classified by the College as beyond commuting distance.

STUDENT LIFE

3. A “Commuter” is a student whose permanent residence is within the geographic area classified by the College as within commuting distance. Commuters are eligible for campus housing when they enter as first-year students. Rooms are reserved for commuters for occasional overnight accommodation. Per diem fees are charged for these rooms.
4. A student is responsible for reporting any change in permanent address to the Registrar of the College, and to the Housing Office.

ASSIGNMENTS

Returning upper-class students are assigned rooms in College residences on the basis of a lottery and room selection. Incoming first-year students, readmitted upperclass students, and transfer students are assigned rooms by the Housing Office.

REQUIREMENTS

The rules and regulations regarding housing deposits, payments and refunds, and the use and occupancy of rooms are in the “Terms and Conditions of Student Residence in Barnard College Housing,” which is given to students selecting College housing and which must be signed by them before they may accept an assignment.

BOARD

The College offers all students meal plans, which include points that may be used in the newly renovated Hewitt cafeteria, McIntosh snack bar and Quad cafe. Meal plans (not points) may also be used at Columbia’s John Jay cafeteria. All first-year students and residents of Brooks and Hewitt are required to be on a meal plan for the full academic year.

MARRIED STUDENTS

Students who plan to marry during the academic year and continue in college are asked to notify the Dean of Studies. Married students, as a rule, will not be allowed to remain in the College residences. They will be subject to financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

FINANCIAL AID FOR ROOM AND BOARD

Commuter students do not normally receive financial aid for living and eating in College residences. Only resident students who choose to live in College housing may receive financial aid for room and board.

ADMISSION

The Committee on Admissions selects young women of proven academic strength who exhibit the potential for further intellectual growth. In addition to their high school records, recommendations, and standardized test scores, the candidates' special abilities and interests are also given careful consideration. While admission is highly selective, no one criterion determines acceptance. Each applicant is considered in terms of her individual qualities of mind and spirit and her potential for successfully completing four years of study at Barnard.

Barnard seeks students from diverse educational and cultural backgrounds and from all geographic regions. However, no preconceived profile of an ideal student population limits the number of applicants accepted from any one group. The College admits students and administers its financial aid and loan programs, educational policies and programs, recreational programs and other College programs and activities without regard to race, color, creed, national origin, or disability.

FIRST-YEAR APPLICATION PROCEDURES

Students are admitted to the first-year class in September and, in limited numbers, in January. They must be at least 15 years of age.

Application for admission to the first-year class should be made by January 15 for entrance in September of the same year. It is advisable, however, to apply in the fall of the senior year in high school. Application forms may be obtained by writing to the Office of Admissions.

A nonrefundable fee of \$40 must accompany each application. Checks or money orders must be in U.S. funds drawn on a U.S. bank and made payable to Barnard College. Students with great financial need should request a fee-waiver from their high school counselor and send it with the application.

SECONDARY SCHOOL PREPARATION

Each candidate for admission must offer a college preparatory program from an approved secondary school or an equivalent education representing a four-year course of study. Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree. A recommended program would comprise four years of work in English; three years in mathematics; three or four years in a foreign language (ancient or modern); two years in science with laboratory; and one year in history. An introduction to a second foreign language is generally useful. The remainder of the program would include additional work in the aforementioned subjects with the possible addition of music and art. Applications varying from this pattern are considered without discrimination if the candidate's records indicate genuine intellectual ability and high motivation.

FIRST-YEAR ENTRANCE TESTS

Barnard requires all candidates to take the College Board's Scholastic Aptitude Test (SAT) and three Achievement Tests (ACH), one of which must be in English composition or literature. The ACT can be substituted for the SAT and Achievement Tests. We recommend that students take these standardized tests by the fall of their senior year. As early as possible, candidates should write directly to the College Board, Box 592, Princeton, NJ 08450 or the American College Testing Program, Box 168, Iowa City, IA 52240 for the Bulletin of Information containing descriptions of the tests, directions for filing applications, the dates on which examinations are administered, and a list of examination centers. Dates vary from year to year and applications to take the test must be received by the CB and ACT well in advance of the test. Students who require nonstandard administration

of the tests should consult with their guidance counselors for testing accommodations.

It is the student's responsibility to direct the College Board or American College Testing Program to send official test scores to the Office of Admissions. The CB code number for Barnard is 2038. The ACT code number for Barnard is 2718.

Another important part of the application is the submission of three recommendations, one from the high school counselor and two from academic teachers of the candidate's choice. These recommendations give the Committee on Admissions additional information about the candidate's interests, character, skills, and aptitude, and should be as complete as possible.

INTERVIEWS

Although not required, an interview is highly recommended. For students who are able to visit the campus, interviews and tours can be arranged by writing or calling the Office of Admissions. Appointments are scheduled Monday through Friday from 9:30 A.M. to 12:00 P.M. and from 1:00 to 4:00 P.M., and on Saturday morning. Applicants who are unable to visit the college may request an interview with a local Barnard Alumnae Admissions Representative (BAAR) by returning the Alumna Interview Request Card that is included with the application.

EARLY DECISION

Well-qualified high school seniors who have selected Barnard as their first choice college may apply under one of two Early Decision Plans (EDP). To be considered under the **Fall Early Decision Plan**, a candidate should submit her application and other required credentials (listed above under freshman application procedures) to the Office of Admissions by November 15. She will be notified of the Committee's decision no later than December 15. To be considered under the **Winter Early Decision Plan**, a candidate should submit a completed application, with all supporting credentials, by January 2 for notification of the Committee's decision no later than February 2. Under either plan, a student may initiate regular applications to other colleges; she must, however, withdraw all other applications upon admission to Barnard. (Notification of financial aid for those candidates who have demonstrated financial need will follow the admissions decision.) To reserve a place in the first-year class, an Early Decision student must submit a nonrefundable enrollment deposit following her decision to enroll. This deposit is applied toward tuition and fees for the first year.

The **Winter Early Decision Plan** recognizes that some candidates may decide on their college preference later than others. The same criteria are used in the evaluation of applicants under both plans. The Committee on Admissions may choose to postpone a decision on an EDP application until the spring. In that event, the student is asked to submit a record of school work from the first half of the senior year. Candidates admitted under the Early Decision Plan are obligated to attend Barnard and will not be allowed to defer their admission.

CENTENNIAL SCHOLARS PROGRAM

The Centennial Scholars Program offers a limited number of intellectually independent students an early opportunity to engage in challenging projects tailored to their individual interests. Centennial Scholars work with mentors, chosen in consultation with the Program directors, on the development, execution, and presentation of these projects.

ADMISSION

The Program is limited to 15 students in any single class, approximately eight to ten to be chosen at the time of their admission with additional selections to be made in the following two terms. Admission of a first-year student to the Program is based on the Centennial Scholars Committee's review of her Barnard application, including her secondary school record, recommendations from her counselors and teachers, her personal statement, standardized test scores, and evidence of advanced preparation. Consideration of an enrolled freshman or sophomore requires recommendations of faculty members.

Centennial Scholars pursue a full program of study and are responsible for the fulfillment of all degree requirements, some of which may be met before matriculation by qualifying scores on Advanced Placement tests. For further information about the Centennial Scholars Program, see page 38.

DEFERRED ENROLLMENT

An admitted freshman or transfer student who wishes to defer enrollment in Barnard for one year must obtain permission by writing to the Director of Admissions explaining the reasons for the deferral request. Such a request is normally granted for purposes of work, travel, or pursuit of a special interest. Students admitted under the Early Decision Plan can not defer their admission.

INTERNATIONAL STUDENTS

Barnard welcomes applications from international students. These students are expected to follow the same application procedure and present the same credentials as other candidates, including the Scholastic Aptitude Test (SAT) and three Achievement Tests, or the ACT.

Knowledge of the English language is essential for admission. Those students whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL). Information about registration for the test is obtained by writing the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. If the TOEFL scores cannot be presented, students are required to take the American University Language Center Text. Arrangements for it should be made through the United States Consulate. After enrolling at Barnard, international students receive assistance with academic placement from the International Student Adviser in the Office of the Dean of Studies.

TRANSFER STUDENTS

Barnard welcomes transfer students in the sophomore and junior classes of each year. Applications for admission in September will be reviewed according to the following schedule:

Deadline	Notification
March 1	April 15
April 1	May 15
May 1	June 15

Each candidate must submit a formal application and the following credentials: the secondary school record, the results of the SAT or ACT, and, if appropriate, the TOEFL, the official transcript of all college work, and a copy of the college catalogue in which the courses taken are clearly marked. Three recommendations are also required: one each

from the high school counselor, a college faculty member and a college dean or adviser.

A strong record of at least one year's work at an accredited college, university, or equivalent institution is required. In some cases, advanced credit cannot be assigned until a student has had an opportunity to establish a satisfactory record at Barnard, but, in general, credit is given for courses which are similar in content and depth to Barnard courses.

After acceptance, academic and general guidance is provided by the Advisers to Transfer Students in the Office of the Dean of Studies. For information on financial aid, students should consult page 23.

VISITING STUDENTS

Qualified students who are degree candidates at other colleges may apply for admission as visiting students for one or two semesters. Each applicant must present a satisfactory college record and a letter of approval from the dean or major adviser from the degree-granting school.

READMISSION

Barnard students who have not been registered for one or two terms may request readmission by writing the Dean of Studies by November 15 for the Spring Term and by April 1 for the Autumn Term. Students who left the College in good standing are normally granted readmission. A non-refundable fee of \$100 must accompany each application for readmission.

RESUMED EDUCATION PROGRAM

Former Barnard students who wish to return to the College after an absence of five years or more to complete the A.B. degree or for further study in new areas of interest after graduation may obtain applications from the Assistant Dean for Resumed Education Students in the Office of the Dean of Studies.

ADMISSION WITH ADVANCED PLACEMENT

Credit for advanced work completed in secondary school is determined on the basis of Advanced Placement (AP) scores and by the policy of the Barnard department concerned. Departmental policies are outlined below. As much as a year of degree credit (normally 30 points) can be granted.

Department	AP Score	Credit	Requirement Status
Art History	4 or 5	3 pts.	
Biological Sciences	4 or 5	3 pts.	(4.5 pts. with review of lab notes) and exemption from BIO BC 1001
Chemistry	4 or 5	3 pts.	(5 pts. with review of lab notes) and exemption from CHE BC 1601
Computer Science	4 or 5	3 pts.	Exemption from CSC W 1003
Economics	4 or 5	3 pts.	Exemption from either ECO BC 1001 or 1002
English	4 or 5	3 pts.	Exemption
Foreign languages	5	6 pts.	Exemption
	4	3 pts.	Exemption
History	5	6 pts.	
	4	3 pts.	

ADMISSION

Mathematics			
Calculus AB	4	3 pts.	and placement in IIA. If student takes and passes the placement test for IIS, she will receive 4 pts. of AP credit and may continue in IIS.
Calculus AB	5	4 pts.	and placement in IIS.
Calculus BC	4 or 5	4 pts.	and placement in IIS. Students may not begin with IIA. If a student takes IIA, rather than IIS, she will receive only 3 pts. AP credit.
			Exemption from Quantitative Reasoning
Music	4 or 5	3 pts.	
Physics	4 or 5	3 pts.	(4 pts. with review of lab notes) and one term of two-term physics sequence
Political Science	4 or 5	3 pts.	No credit toward the major
Psychology	4 or 5	3 pts.	Exemption from PSY BC 1001

No credit will be granted for a college course equivalent to the AP course for which AP credit has been awarded.

OTHER DEGREE CREDIT

Students who have satisfactorily completed college courses before the freshman year at Barnard may apply for a maximum of 15 points of degree credit. The courses must be intended primarily for college students and taught at the college by members of its faculty. With the exception of Advanced Placement courses overseen by the College Board, courses taught in a high school, either by specially trained high school teachers or by college instructors, will not be credited toward the Barnard degree.

FINANCIAL INFORMATION

The costs of education at Barnard are met by tuition, income from endowment, current gifts from alumnae and other friends of the College, and grants from foundations, corporations, and government agencies. The College makes every effort to limit charges to students, but must reserve the right to set tuition and fees at the level necessary for the maintenance of a high quality of instruction.

SCHEDULE OF ANNUAL TUITION AND FEES

The following tuition and fees are required from all students for the Academic Year 1992-93 and are subject to change without prior notice.

Tuition:

Full program (12-18 points)	\$16,288
Partial program (1-11 1/2 points)	542 (<i>per point</i>)
Excess program (over 18 points)	542 (<i>per point</i>)
Program for Resumed Education. Tuition is assessed on the basis of a schedule available from the Director of the program in the Office of the Dean of Studies.	
Comprehensive Fee (<i>includes Student Health Service Charges and Student Activity Charges</i>)	626

The following fees are required from all students occupying college housing facilities for the Academic Year 1992-93.

Residence charges

Brooks, Hewitt, Reid and Sulzberger Hall ring floors (*board required— see below*)

All college housing	
<i>Single occupancy</i>	\$4,858
<i>Multiple occupancy</i>	4,328

Board charges — Required of all those living in Reid and Sulzberger Hall ring floors and of most living in Brooks and Hewitt:

19 Plus Plan—19 meals per week—minimum requirement for all first-year students in Barnard housing (25 pts.)	2,988
14 Plus Plan—14 meals per week (85 pts.)	2,682
10 Plus Plan—10 meals per week (55 pts.)	2,476
7 Plus Plan—7 meals per week (110 pts.)	2,476

Other fees — Required if applicable

Application for admission	40
Readmission fee	100
Registration in absentia (per semester)	200
Physical education —part-time students (per course)	542
Orientation fee—all first-year and transfers entering in the	
<i>Autumn Term</i>	125
<i>Spring Term</i>	50
Overseas Program fee (<i>Reid Hall, Barnard Option, Kyoto Program</i>)	75
Senior fee—all graduating seniors	100

FINANCIAL INFORMATION

Course fee (<i>per semester</i>)	
French	\$10
Film fees	
Art History—Autumn	5
Art History—Spring	30
French	20
Italian	30
Laboratory fees (<i>per laboratory course</i>)	
Biological Sciences	40
Chemistry—General	28
Chemistry—Other	35
Bio-Chemistry	45
Computer Lab (<i>per semester</i>)	25
Environmental Science	30
Physics	25
Psychology	20
Study Leave fee (<i>per semester</i>)	200
Summer Credit Processing fee (<i>except CU summer session</i>)	50

PAYMENT OF CHARGES AND FEES

All charges and fees (unless otherwise noted) are billed on a semester basis. The Autumn Term tuition is due August 3. The Spring Term tuition is due December 15. Payments received after these dates are subject to a late processing fee of \$75. Registration for either semester will not be complete until all College costs have been paid. Failure to complete registration on time imposes a late registration fee. Occupancy of an assigned dormitory room will not be permitted until charges have been paid in full as required. Students admitted after August 3 or December 15, respectively, must pay the balance due by the first day of registration.

Financial aid grants and any loans applied for may be deducted from the semester charges before computation is made of the balance due.

Privileges of the College, including issuing of transcripts and diplomas, and administration of examinations, are not available to any student who is delinquent in the payment of her College bills. When bills are not paid in full by their due date or satisfactory arrangements for their payments have not been made with the Bursar, the student will not be allowed to register and may be required to withdraw from the College.

All charges and fees are subject to change at any time at the discretion of the Board of Trustees.

Checks or money orders in payment of tuition and fees must be in **U.S. funds at a U.S. bank** payable to Barnard College and should be made out for the exact amount of the payment due. A fee will be assessed for checks returned unpaid.

DEPOSITS

To obtain a place on the College roster for the ensuing academic year, each student who is currently enrolled must pay a non-refundable tuition deposit of \$200 on or before May 10. An applicant for admission must pay a \$200 non-refundable tuition deposit upon acceptance of the offer of admission to Barnard College. New students also requesting college housing must submit a non-refundable housing deposit of \$200 by May 10.

All returning resident students must pay a \$200 housing deposit in person or by proxy prior to the spring housing lottery during the time period designated by the Housing

Office. Students who are not eligible to participate in the spring housing lottery but wish to live in college housing must submit a \$200 housing deposit with their waitlist application for college housing to the Housing office. Housing deposit credits will be given as follows: full credit if a room is not selected in the spring housing lottery; credit of \$100 if a room is selected in the spring housing lottery or assigned by the Housing office but canceled in writing by July 1. No credit is given if a room is selected in the spring housing lottery or assigned by the Housing office and canceled after July 1, except that a student who files an approved study leave form for the Autumn or Spring term and cancels her housing assignment immediately upon such approval will receive credit on her return.

DEFERRED PAYMENT

For students and parents desiring to pay education costs in monthly payments, a choice of payment plans is available. The College has arranged to participate in finance programs offered by Manufacturers Hanover, tuition plans offered by Knight Insurance Agency, Inc., and the payment plan of Academic Management Services, Inc. Information can be obtained from the Bursar.

ADJUSTMENT OF TUITION FOR CHANGING PROGRAM OF STUDY

If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be credited the excess only if the alteration in her program is made by September 18 (last day of program filing) in the Autumn Term and by January 29 in the Spring Term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

CREDITS FOR WITHDRAWAL

If a student withdraws during the College year both the tuition deposit and the housing deposit are subject to forfeit.

A pro-rata credit of remaining charges is made on a semester-by-semester basis in accordance with the following schedule.

Fees. All required fees are non-refundable after Autumn and Spring Term registration dates as noted in the College calendar.

Tuition. Full credit except deposit will be given up to and including the first Friday of the term. After the first Friday of the term, 10% of the net tuition will be retained by the College for each week or part of a week up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

Residence Charges. Up to but not including the first day of classes —full credit will be given except the \$200 housing deposit. In the event of withdrawal from housing while still enrolled in the College, a student will forfeit 80% of charges during the first two weeks of classes. Thereafter the entire amount for the semester will be forfeited.

Optional Board Plan. Before the second Friday of each term, pro-rata credit from the date a change form is completed in the Bursar's Office. A \$50 service fee is charged to drop or change a current meal plan. Drops and changes in meal plans will not be permitted after the second Friday of each semester. Please note specific meal plan requirements (see page 23).

SAFEKEEPING OF STUDENTS' FUNDS

Barnard College is not able to receive funds from students for safekeeping or to cash personal checks or traveler's checks.

To cover immediate expenses, a student should have traveler's checks, which can be

FINANCIAL INFORMATION

cashed at a local bank, or money orders, which the Columbia University Station of the U.S. Post Office will cash upon presentation of a validated ID card. Validated ID cards are issued after students register at the beginning of each term.

FINANCIAL AID

Insofar as possible, Barnard assists qualified students who demonstrate financial need. Barnard does not discriminate against applicants for financial aid on the basis of race, color, creed, national origin or disability.

Financial aid from the College consists of grants, loans, and opportunities for part-time employment. In addition to providing financial aid from its own funds, i.e., gifts, endowment, and general income, Barnard participates in the following Federal programs: the Pell Grant program, the Supplemental Educational Opportunity Grant program, the Perkins Loan program, the Stafford Student Loan program, the Parents Loan for Undergraduate Students program, Supplemental Loans to Students, and the College Work-Study program. Barnard also participates in the New York State Higher Education Opportunity Program (HEOP). Federal and State funds are administered by the College in accordance with government regulations and the College's general policies relating to financial aid. To supplement the above mentioned financial aid sources, students are urged to investigate state loan and scholarship/tuition assistance programs and college tuition financing plans offered by local banks, insurance companies, and the SHARE loan program.

Any student who thinks she will need financial aid in order to attend Barnard is encouraged to apply for aid. The decision of the Committee on Admissions to admit a student is not affected by the fact that a student has applied for or demonstrated need for financial aid.

A detailed explanation of current College policies and awarding practices may be found in the brochure, *Barnard College Financial Aid Policies and Procedures*, available from the Office of Financial Aid.

ACADEMIC ADVISING

Academic advising is coordinated by the Dean of Studies, who oversees the assignment of an adviser to each entering student. Although responsibility for the fulfillment of degree requirements (see page 31) rests with the student, her academic adviser is prepared to help her match her program of courses to her individual goals and priorities, to acquaint her with the full range of academic resources available at the College and the University, and to respond to her questions on the curriculum and academic policies and procedures. Also available for assistance are her Class Dean, the entire staff of the Dean of Studies, and the other members of the Barnard faculty.

CLASS DEANS AND ADVISERS

After being notified of acceptance to the College, each entering first-year student will receive a program form and the program guide from the Office of the Dean of Studies. The student selects courses for the Autumn Term and returns the completed program form to the Class Dean for first-year students who, insofar as possible, schedules classes accordingly. Class schedules and registration materials are distributed when students arrive on campus in September. The Class Dean also assists the Dean of Studies in coordinating the academic advising of first-year students, participates in planning for first-year orientation with the help of a committee of upperclass students, and oversees other special programs for first-year students.

Assistance in planning courses of study is given to first-year students and sophomores by their academic advisers. Group meetings with advisers are scheduled during orientation and program-planning periods. For individual advising, students may schedule appointments in 105 Milbank and departmental offices. Group meetings with department chairs and other professors are arranged periodically to facilitate the selection of majors.

In the second semester of her sophomore year, each student chooses her major field in consultation with her Class Dean, her adviser, the academic department and the Director of Career Services. During her junior and senior years, her major adviser guides advanced study for the undergraduate degree and is the principal source of information on preparation for graduate school. Also available to her for general academic guidance is her Class Dean.

While it is the student's responsibility to complete all degree requirements, the Senior Class Dean reviews each senior record and advises on graduation status. A senior handbook, sent to campus mailboxes at the beginning of the Autumn Term, describes College policy on honors, application procedures for graduate or professional study, and deadlines for major examinations, GRE, LSAT, MCAT, and fellowship applications. The Senior Class Dean directs the planning for commencement with the help of class officers and the Commencement Committee.

TRANSFER ADVISERS

Incoming transfer students are assisted by the transfer advisers in planning their courses of study and designating a major field. Group meetings are scheduled late in the summer and during orientation, and individual appointments may be arranged in the Office of the Dean of Studies throughout the academic year. Transfer students who enter with junior class standing are guided by both transfer and major advisers during their first Barnard semester.

INTERNATIONAL STUDENT ADVISER

Advice on situations arising from foreign student status is available in the Office of the Dean of Studies from the Assistant Dean designated to counsel international students.

ACADEMIC ADVISING

OTHER COLLEGE DEGREE CANDIDATES

Students who enroll for classes at Barnard but who will graduate from another college must have approval from the degree-granting school for course work to be completed at Barnard. Program-filing and registration are guided by a dean in the Office of the Dean of Studies.

STUDY LEAVES

Students who wish to study for credit toward the Barnard degree at another accredited college, whether it be abroad or in the United States, are to apply for approval from the appropriate Assistant Dean in the Office of the Dean of Studies early in the semester before the period of enrollment at the other institution. Information and forms are available at 105 Milbank.

PRE-PROFESSIONAL ADVISING

Students who are interested in post-baccalaureate professional training may consult the appropriate pre-professional dean in the Office of the Dean of Studies for help with programming, selection of schools, and submission of application materials. A student who plans to enter one of the health professions should seek advice in her first or second college year in order to discuss requirements and obtain a handbook. Consultation with the pre-professional advisers in the junior year is recommended for any student interested in law, social work, architecture, journalism, or business. The pre-professional secretary maintains recommendation files and forwards materials required for applications. (See page 30.)

GRADUATE SCHOOL ADVISING

Students interested in advanced study in the liberal arts and sciences or the performing arts may consult faculty members in appropriate departments and the Senior Class Dean. A student who plans to apply to graduate school should, in her senior year, establish a file with the secretary for graduate school recommendations in the Office of the Dean of Studies.

HIGHER EDUCATION OPPORTUNITY PROGRAM

The Higher Education Opportunity Program, a support service to meet the needs of New York State undergraduate women from backgrounds that are disadvantaged economically and academically, provides counseling, tutoring, and financial assistance. In a six-week summer program, all incoming HEOP students receive instruction in English, mathematics, research, and public-speaking skills. During the academic year, tutoring, workshops, and study groups are available in addition to academic and personal counseling.

RESUMED EDUCATION

For advice on academic study and college services for students returning to Barnard after absences of five years or more to complete the A.B., or for graduates redirecting their careers and exploring new interests, the appropriate dean in the Office of the Dean of Studies may be consulted.

STUDENT SERVICES

OFFICE OF CAREER SERVICES

The Office of Career Services helps students and alumnae explore, define and implement career plans. To provide this service the office has developed programs enabling Barnard women to gain work experience and to become informed about different career opportunities. Both students and alumnae are seen for individual career counseling, and group workshops are given on careers and related concerns. The Career Services Internship Program provides semester and summer offerings useful for students to clarify their vocational interests through valuable and often professional-level experience. A newsletter informs students about career programs, workshops, internships and special opportunities.

To aid students and alumnae in exploring career areas the Office maintains a contact file, which lists alumnae who are available to discuss their fields; a library of vocational materials; and a collection of graduate school catalogues. Workshops on specific concerns, such as resume writing and interviewing skills, are conducted when the College is in session. Students and alumnae may establish permanent recommendation files in the office for future employment.

The Office of Career Services, which is open twelve months a year, has contacts with many potential employers who post full- and part-time jobs. The Federal College Work Study Program is also administered by this office. Students use part-time and temporary job listings for both on- and off-campus jobs. The Jobseekers Newsletter, which highlights full-time job opportunities, is issued every two weeks and is mailed to alumnae who request it. During the spring semester, seniors are interviewed on campus by corporate and large nonprofit organizations offering training program opportunities through the Recruitment Program.

The Barnard Babysitting Service, Barnard Bartending Service, and the Barnard Student Store are student-run services supervised by the office. They provide excellent managerial experience and create jobs for many students.

PROGRAM FOR STUDENTS WITH DISABILITIES

In 1978, Barnard established a program to provide services for students with disabilities which enhance their educational, pre-professional, and personal development. The Office for Disability Services (ODS) serves students with visual, mobility, and hearing impairments and students with hidden disabilities such as chronic medical conditions, learning disabilities, and psychiatric/emotional disabilities. The ODS works with other administrators and members of the faculty to assist students with disabilities in participating in college activities, securing financial aid, scheduling classes and examinations, and planning careers. Mobility aides, readers, tutors, and note-takers are available on request. ODS publications include the *Barnard College Policy on the Admission of Students with Disabilities* and a services brochure *What ODS Can Do for You*. The 504 Access Committee works to reduce architectural, programmatic, and attitudinal barriers at the College. The LD Peer Service Team offers outreach, peer support, and referral to students with learning disabilities; the BAID Network (Barnard Alumnae Involved with Disabilities) provides students with access to disabled alumnae in a broad range of careers.

The buildings on the contiguous campus interconnect and are wheelchair accessible. Maps of the campus showing special features and access routes are available at the Office for Disability Services.

STUDENT HEALTH SERVICES

Student Health Services provides primary health care and specialty consultation for all registered Barnard students. The medical staff consists of full-time and part-time physicians, a part-time gynecologist, and nurses experienced in college health and women's health care practice. The Mental Health Service, headed by a part-time psychiatrist, is staffed by psychiatrists and clinical psychologists. Advanced trainees in a number of clinical

STUDENT SERVICES

cal disciplines work at Barnard on a yearly basis. Entering students must submit medical history and physical forms, which become the basis of the medical chart.

Both the Health Services and the Mental Health Services are available to all Barnard students and are covered by the Comprehensive Fee. The Barnard Health Services close during college vacations and holidays, when Barnard students may use the Columbia University Health Services. A physician is on call nights and weekends when the College is in session for after-hours emergencies.

All Barnard students who have paid the Comprehensive Fee are covered for the Basic Accident and Sickness Plan benefits of the Barnard Student Insurance Plan. The insurance plan provides benefits toward the cost of the following services when ordered by a Barnard staff physician:

- 1) hospitalization for illness or accident;
- 2) laboratory tests and x-rays;
- 3) consultations.

The following services are **not** covered:

- 1) home visits;
- 2) consultations when the College is not in session;
- 3) dental care (except for treatment of injury to sound natural teeth);
- 4) filling of prescriptions by outside physicians.

For additional information, students are encouraged to consult *Barnard Health Service*, *A Student Guide*, and the brochure describing the Barnard Student Insurance Plan, which are available at the Student Health Services.

RESIDENT ASSISTANTS

As part of the student support network, upperclass students in each residence hall are designated as **Resident Assistants** to answer questions on campus life for resident students, to provide liaison with other services, and to aid in residential programming.

SERVICES FOR COMMUTERS

The Office of Student Life provides information about off-campus housing, transportation, carpooling, parking, and temporary on-campus accommodations, and supports educational, cultural, and social programs designed to enrich commuter life. The Skip-Stop Express is the student-run organization sponsoring events and support services for commuters. It has an office in McIntosh Student Center across from the Commuter Lounge.

RECOMMENDATIONS

Students may establish recommendation files for employment in the Office of Career Services, for graduate study with the recommendations secretary in the Office of the Dean of Studies, and for professional schools with the pre-professional secretary in the Office of the Dean of Studies. For procedures and policy, the appropriate office should be consulted.

STUDENT RECORDS AND INFORMATION

The Family Educational Rights and Privacy Act of 1974 (the Buckley Amendment) stipulates that students may have access to their official files and that no transcripts may be issued without their written request. A further explanation may be found in the *College Calendar and Student Handbook*.

Also in accordance with the Buckley Amendment, Barnard has the right to make public, at its discretion and without prior authorization from the student, the following information: name, class, home or college address and telephone number; major field; date and place of birth; dates of attendance at Barnard; degrees; honors and awards received; and previous school most recently attended. The law also gives students the right to place limitations on the release of this information. A student who wishes to do so must file a special form with the Registrar, 107 Milbank, each year by September 15. In practice, the College does not indiscriminately release information about individual students.

THE CURRICULUM

REQUIREMENTS FOR THE A.B. DEGREE

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts, the only degree awarded to Barnard students. The degree requires the satisfactory completion of 120 points of academic work and two terms of physical education. All students must complete a major and must fulfill general education requirements.

MAJOR REQUIREMENTS

All students must complete the requirements of an approved major. The number of required courses for the major depends on the major chosen (see individual department and program curriculum statements), but a minimum of six semester-courses must be completed while the student is enrolled at Barnard. A course graded D will not satisfy a major requirement.

The student registers her chosen major with the Office of the Registrar and with her major department or program, normally in the second term of her sophomore year. The major may be chosen from any listed in the Barnard Catalogue. A student may major in two fields by satisfying all the major requirements prescribed by each department, with no overlapping courses. If either of the fields qualifies for the distribution requirement, two of the courses in one field may count toward that requirement. A combined or special major may be designed in consultation with the chairs of the appropriate departments and with the approval of the Committee on Programs and Academic Standing. Committee approval is not needed for the double major that comprises all the course requirements of two majors with one integrating senior project, but the form designated for such a double major must be filed with the Registrar and the two departments.

GENERAL EDUCATION REQUIREMENTS

Barnard's general education program is designed to provide direction and continuity while giving students opportunities to shape their own programs of study. Barnard offers a rigorous but flexibly structured set of requirements which afford students a range of choice in almost every instance. The requirements follow.

FIRST-YEAR SEMINAR

First-year students are required to take this one-semester course, which provides special opportunities to develop some of the intellectual skills and styles which will be central to subsequent academic work. The enhancement of writing and communication skills is emphasized, as is the group-discussion mode of intellectual inquiry and discourse. Seminars adopt major themes or issues, and participants read and discuss leading philosophical, historical, literary, or scientific statements of them. A full list of First-Year Seminars, with descriptions and the names of instructors, begins on page 144. Transfers are not required to take the First-Year Seminar.

FIRST-YEAR ENGLISH

First-year students must take the one-semester writing course ENG BC 1201 (Studies in Language and Literature), designed to cultivate and develop prose writing and related tools of scholarship. Reading and writing assignments focus on major works of literature. Some students may gain exemption from the course with an Advanced Placement (AP) test

score of 4 or 5. Foreign students are required to exhibit a degree of fluency before enrolling in this course. Transfers are not required to take this course but must have earned exemption or completed an equivalent course before graduation.

FOREIGN LANGUAGE

Students must achieve basic competence in one ancient or modern foreign language. The requirement is fulfilled by completion of the fourth sequential semester, or a more advanced course for which the fourth semester is prerequisite. (In Latin, both Latin V1201 and V1202 or their equivalents must be completed.) The faculty recommends that (i) the third and fourth semesters be completed at Barnard; (ii) elementary courses be completed in the first year; (iii) courses be taken consecutively without interruption; and (iv) proficiency be established by the end of the junior year. Reenrollment without credit is required, whenever feasible, for students whose work in any of the first three semesters is graded below C.

Exceptions:

1. A sequence that includes Italian V1301, V1302, and a year of literature will qualify.
2. Completion of Spanish BC 3105x for Spanish-speaking students (taken only with the instructor's permission) will qualify on recommendation of the instructor.
3. Enrolled students who complete the third or fourth semester of French outside the Barnard department must take a departmental examination to qualify for fulfillment.
4. Enrolled students who wish to qualify in German are advised to take German BC 1204 at Barnard, or they will otherwise be required to take the German Department's placement examination on completion of the other-college course.

Exemptions:

1. CEEB Achievement score of 750 or higher.
2. AP score of 4 or 5.
3. Departmental examination.
4. Students with native English who study in a high school where the language of instruction is not English (e.g., French, for alumnae of the Lycée Français).
5. For foreign students without English as their native language or the primary language of instruction at their high schools, satisfactory completion of English BC 1201 or one satisfactory year at Barnard.

Placement:

1. CEEB Achievement score of 650-749 fourth semester; 550-649 third semester; 400-549 second semester; below 400 first semester.
2. For transfer students: the course following the level of the last satisfactorily completed semester course; however, formal withdrawal and reenrollment in a more suitable course may be required for students who are judged by the department to be inappropriately placed and in need of additional preparation or review. In such a case, transfer credit for the previous course is rescinded to allow the student to receive credit for the Barnard/Columbia course of equivalent level.
3. By departmental examination, if there is no CEEB score or previous college transfer work.

Credit:

1. Credit is given for courses satisfactorily completed in residence at Barnard or, in the case of a transfer, at her previous college.
2. No prior assurance of degree credit is given for summer or transfer work in foreign language courses. For work completed at other colleges, credit is granted with departmental approval, or by examination, or on completion of the next level at Barnard.
3. No credit is granted for work equivalent to a level already completed and credited.
4. No credit for the first semester of an elementary language is granted unless a more advanced course is completed.

LABORATORY SCIENCE

Students must complete one year of science (two semesters), with laboratory in the same field. Acceptable courses must meet for at least three hours of lecture and three hours of laboratory per week. The student must pass both the lecture and the laboratory portion of the course, and the College strongly suggests that the two be taken concurrently. The following courses meet these requirements:

Astronomy	AST V 1753-1754 or AST C 1403-1404, both with the lab AST C 1903-1904
Biology	BC 1001-1002, 2001, 2002, 2003, 2004
Chemistry	BC 1601 and BC 1602 BC 1601 and BC 3230 with BC 3328 C 1403-C 1404 with C 1500 and one additional laboratory course, e.g., BC 1702, BC 3328, or BC 3338.
Environmental Science	BC 1001, BC 1002, GEY V 1011-1012, GEY S 1021D-1022Q (CU Summer)
Physics	BC 1206-1208, V 1003-1004, C 1021-1022, F 1003-1004, V 1103-1104, V 1305-1306, W 1003-1004
Psychology	BC 1105, BC 1108, BC 1117, BC 1123, BC 1127, BC 1130, BC 1136, BC 1156 (any two from different groups: see Major Requirements)

Students wishing to substitute a course-sequence not given above, transfer students, and those with Advanced Placement should consult with the appropriate department chair for guidance with respect to fulfilling this requirement.

QUANTITATIVE REASONING

All students must take the Basic Math Skills placement test given at the Academic Computer Center during their first week of matriculation. (Students who score below eleven must take QUR BC 1001, **Basic Math Skills**, during their first year at Barnard and **before** satisfying the requirement.) All students must then take one course in which the major topics are mathematics, methods of empirical analysis using quantitative data, or the use of symbolic manipulation to solve problems. After passing the placement test or QUR BC 1001, the requirement may be fulfilled by taking and passing any *one* of the following courses:

Astronomy	AST V 1753, 1754 or AST C 1403-1404
Chemistry	BC 1601, C 1403, C 1404

THE CURRICULUM

Computer Science	Any course carrying degree credit <i>except</i> W 1001 CU Summer S1021D, S1022Q
Economics	BC 2411
Environmental Science	BC 1001, 1002
Mathematics	Any course carrying degree credit (Note: F 0065 unacceptable.)
Philosophy	V 3411, V 3415 (F 3410 does not fulfill the requirement.)
Physics	Any course carrying degree credit
Political Science	BC 3345
Psychology	BC 1101
Quan. Reasoning	All courses <i>except</i> BC 1001
Sociology	V 3212
Statistics	Any course carrying degree credit

Note: A student may fulfill the requirement if she receives AP credit for a course equivalent to one of the above. Such students must still take the Basic Math Skills placement test. A student who fulfills the laboratory science requirement in Chemistry, Physics or Astronomy simultaneously satisfies the Quantitative Reasoning requirement.

DISTRIBUTION

Note: It is possible to satisfy both parts of the distribution requirement with the same courses.

Part A:

Students must complete four one-semester courses outside the major, two in the Humanities and two in the Social Sciences. In each of these areas, one of the two courses may be interdisciplinary.

The distribution requirement in the Humanities may be fulfilled by courses in Art History, Philosophy, Religion, Studies in the Humanities, Medieval and Renaissance Studies, any literature, the history or literature of music, the history of dance or theatre, Humanities C 1001 or C 1002, and by designated courses in Asian and Middle Eastern Cultures or Women's Studies.

The distribution requirement in the Social Sciences may be fulfilled by courses in History, American Studies, Anthropology, Economics, Linguistics, Political Science, Sociology, Contemporary Civilization C 1101 or C 1102, and by designated courses in Asian and Middle Eastern Cultures, Urban Affairs or Women's Studies.

Part B (effective beginning 1993-94 for the first-year class):

Students must complete four one-semester courses chosen from the three categories listed below, with no more than two courses from any one category.

- I. Comparative Studies of Culture and Society
- II. Societies and Cultures of Asia, the Pacific, Africa, or the Middle East
- III. Societies and Cultures of Europe or the Americas

Courses taken for Distribution - Part B may also qualify to fulfill Distribution - Part A. Courses that qualify for the major or a minor may also qualify for Distribution - Part B. Courses satisfying Part A are identified in this catalogue by the letter H (for Humanities) or S (for Social Sciences) on the last line of the course description. Courses satisfying Part

B will be identified in the 1993-94 Catalogue by the Roman numeral I, II, or III (corresponding to one of the three categories listed above) on the last line of course description. When a course satisfies both Part A and Part B, its description will be accompanied by both the letter H or S and the Roman numeral I, II, or III.

ELECTIVES

Apart from fulfilling general education requirements and major requirements, the student completes the remainder of the 120-point requirement with elective courses, either within or outside the major department, subject to the approval of the appropriate adviser.

No more than 18 points of studio, performing arts, or professional school courses (including film) may be credited toward the A.B. degree. Of these, a maximum of four arts studio courses may be credited, and a student who takes more than two is required to validate each additional studio course with a course in art history. A maximum of six courses in instrumental instruction may be credited, and a student who takes more than two is required to validate the third and the fourth courses of music lessons with a course in music theory, history, or literature. See page 189.

One-point dance technique courses taken by non-dance majors for credit over and above the physical education requirement are also included in the existing 18-point maximum which may be credited toward the degree; a maximum of six courses in dance technique may be credited; a student who takes more than two one-point dance technique courses for credit beyond the physical education requirement is required to validate the third and fourth dance technique courses with a concurrent course offered by the Dance Department which does not contain a technique component.

Exceptions to this rule are allowed only for courses in the major field or for courses taken in fulfillment of requirements for double and joint degree programs with the professional schools of the University. A maximum of 24 points may be credited for studio or performance courses in the major field. A minimum of 90 points of traditional liberal arts courses is required for the student who majors in such a field; for all other majors, a minimum of 102 points of such courses is required.

PHYSICAL EDUCATION REQUIREMENT

First-year students must complete two semesters of physical education at Barnard. One semester must be passed in the first year and the requirement must be completed by the end of the sophomore year. Sophomore and junior transfers are required to complete one semester of physical education at Barnard unless they have completed two semesters at the previous school. Transfers are normally expected to complete their requirement by the end of the junior year. Failure to complete the requirement by the specified deadlines will result in a failing grade. The physical education requirement is in addition to the 120 academic-point requirement and is graded on a pass-fail basis.

LENGTH OF RESIDENCE

Students are expected to be registered full-time for four years. Transfer students must complete at least 60 points and two years in residence at Barnard to receive the degree (see below for additional information). Under certain conditions, it is possible for a senior to complete her work for the degree while registered in absentia, with the permission of the Committee on Programs and Academic Standing.

THE CURRICULUM

REQUIREMENTS FOR TRANSFER STUDENTS

To receive the A.B. degree at Barnard, a transfer student must attend Barnard for at least four regular academic terms during which she must complete at least six courses in the major field (and three in the minor field, if a minor is elected). Additional major (and minor) courses, as well as general education requirements, may be satisfied by transfer courses. Exemption from the foreign language requirement may be attained on the basis of College Entrance Examination Board Achievement scores alone or by a combination of those scores and additional college work. Those who do not receive exemption must complete the normal language requirement (see page 32). Transfer students are eligible for general honors when both overall and Barnard averages meet the required academic standards.

TRANSFER CREDIT

Courses completed at other accredited colleges and universities which are similar in content and depth to Barnard courses may be submitted for transfer credit. Transfer courses are evaluated after a complete transcript is received in the Office of the Registrar. Students are asked to submit catalogues and course descriptions with their requests for transfer credit to the Registrar, who notifies them of the evaluation by mail.

Credit for approved work at another institution is applied to Barnard's 120-point graduation requirement with a maximum of 16 points per term. Credit cannot be granted for courses with grades lower than C minus. Acceptable transfer work does not usually include applied or professional courses or more than the equivalent of two Barnard studio courses. The first term of an elementary language course is not credited unless or until the second term or a more advanced course has been satisfactorily completed.

Summer work is not included in initial credit estimates. Transfer students may apply for credit for previous summer courses under the regulations governing summer study (see page 40).

First-year students with a record of prior course work taken as non-matriculants at an accredited college in the United States may request up to 15 points of transfer credit. Grades for this course work are included in the overall average.

CLASSIFICATION OF STUDENTS

Students are classified as follows:

Matriculated	Points completed
First-year	fewer than 24
Sophomore	24-51
Junior	52-85
Senior	86 or more
Unclassified	transfer students who have not yet been assigned credit

Non-matriculated:

- Other college degree candidates
- Barnard alumnae auditing courses
- Barnard alumnae taking courses for credit
- Any other student who is not a degree candidate

A degree candidate (i.e., student who is matriculated) may not change her status to non-matriculated.

FILING OF DIPLOMA NAME CARDS

The Diploma Name Card, available in the Office of the Registrar, is the student’s official notification to the Registrar that she expects to have completed all requirements for the degree and to receive the diploma on a particular graduation date. Degrees are granted in May, October, and February. The filing of the card sets in motion the processing of the student’s academic records in preparation for graduation. It is the student’s responsibility to file the Diploma Name Card before published deadlines (see College Calendar). Graduation ceremonies are held in February and May.

OTHER ACADEMIC OPPORTUNITIES

MINOR

The selection of a minor field of study is optional. A minor requires at least five courses (three of which must be qualifying Barnard or Columbia courses) that total a minimum of 15 points, and may be designated by any student having a major after completing a minimum of three courses in the minor field. Requirements depend on the minor chosen (see individual department curriculum statements); courses are selected in consultation with the department chair. Two of the courses taken for the minor may be used to fulfill the distribution requirement if the field selected qualifies for the requirement (see page 34). To qualify for the minor, a course must be letter-graded A-C.

SENIOR SCHOLAR PROGRAM

The Barnard Senior Scholar Program allows a qualified student to undertake a single project for the entire senior year, or for one semester of the senior year (normally the second). The Program is intended for the student who is unusually well prepared in an academic discipline or in one of the performing arts. It offers the special advantages of concentration on one project, designation as Senior Scholar on the permanent transcript, and the amendment of some major requirements. Senior Scholars are allowed credit for no more than 30 points for the project. In the past, Barnard Senior Scholars have gained approval for a wide range of proposals.

A qualified student interested in the Senior Scholar Program should consult the Senior Class Dean in the office of the Dean of Studies, who is coordinator of the program, in her junior year. Before the beginning of the senior year, the student should have completed all but the major requirements for the A.B. degree. Her written application for the Senior Scholar Program is submitted to the Committee on Honors for approval. The deadline for the application appears in the College Calendar.

CENTENNIAL SCHOLARS PROGRAM

The Centennial Scholars Program offers students of outstanding achievement and ability an opportunity to engage in challenging independent projects tailored to their individual interests. Supplementing the regular Barnard curriculum, the Program enables Centennial Scholars to pursue individual objectives in specialized areas with the assistance of mentors, chosen in consultation with the Program directors.

Admission to the Centennial Scholars Program is based on evidence of intellectual creativity and advanced academic preparation. While many of the students in the Program are selected at the time of their admission to the College, the Program is also accessible to enrolled first-year and sophomores who distinguish themselves during their first terms at the College.

The Program confers a maximum of 18 points of credit toward the degree. In the spring of the student's first year as a Centennial Scholar, she enrolls in CEN BC1889, "Working with Ideas," an interdisciplinary course designed to lay the foundation for the core of the Program, an extended apprenticeship with her mentor(s). Her project may extend over two or three semesters, and may include a summer to accommodate travel or other particular needs. The Program culminates in the Centennial Scholars Symposium, which is devoted to the public presentation of the project in the term of its completion. Dinner lectures, outings to museums, artists' studios, and research laboratories and similar activities are additional features of the Program.

OTHER ACADEMIC OPPORTUNITIES

The Centennial Scholars Program is governed by a committee consisting of the following members:

Leslie Lessinger, Co-Director, *Professor of Chemistry*
Barbara Miller, Co-Director,
Samuel R. Milbank Professor of Asian and Middle Eastern Cultures
Philip V. Ammirato, *Professor of Biological Sciences*
Vilma Bornemann, *ex-officio, Dean of Studies*
Dorothy Denburg, Academic Adviser to Centennial Scholars, *ex officio*
Associate Dean of Studies
Serge Gavronsky, *Professor of French*
Timothy Halpin-Healy, *Assistant Professor of Physics*
Cary Plotkin, *Assistant Professor of English*
Doris Davis, *ex-officio, Director of Admissions*

WRITING FELLOWS PROGRAM

The Writing Fellows Program offers exceptional students with strong writing, reading, and communication skills an opportunity to become peer-tutors in writing. During their first semester in the program, students take a seminar and practicum in the teaching of writing (see page 133: *The Writer's Process*) usually in the Autumn term of their sophomore or junior year. As Writing Fellows, they go on to work in a number of different settings (e.g., The Writing Room, writing-intensive courses across the curriculum) with Barnard undergraduates at all levels and in all disciplines. Writing fellows receive a stipend and are asked to make a commitment of three semesters to the program.

PROGRAM PLANNING FOR STUDENTS INTERESTED IN MEDICINE OR DENTISTRY

The basic pre-medical and pre-dental requirements are two semesters of introductory biology with one semester of laboratory, all at the 2000 level or higher (BIO BC 2001, BC 2002, and laboratory: BC 2003); two semesters of general chemistry and one semester of laboratory (CHE BC 1601, BC 3232); two semesters of organic chemistry and one semester of organic laboratory (CHE BC 3230, BC 3231, BC 3328); two semesters of physics with accompanying laboratory (PHY V 1003-1004; V 1103-1104; BC 1206-1207); and two semesters of English. Highly recommended courses, required by some schools, are two terms of calculus or other college-level mathematics and one additional chemistry laboratory (CHE BC 3338 or BC 3340).

Students should become familiar with the most recent edition of Medical School Admissions Requirements, an annual publication of the Association of American Medical Colleges, and Barnard's own *Handbook for Students Entering the Health Professions*, copies of which are available in 105 Milbank. The latter deals with many of the health professions (optometry, podiatry, physical therapy, and public health) as well as medicine and dentistry.

Pursuing a major in the sciences is not necessary for pre-medical students provided they include the aforementioned required courses in their programs. The science requirements should be completed in the year prior to the year of desired entry (i.e., in most instances the junior year), at which time students are advised to take the Medical College Admissions Test, normally offered in April. The test is repeated in the early fall for those who wish to retake it or who, for compelling reasons, were unable to take it in the spring.

All students who are interested in the health professions should consult their class advisers as early as possible and should start a file with the pre-professional secretary and consult with the pre-professional dean in the Office of the Dean of Studies by the junior year

OTHER ACADEMIC OPPORTUNITIES

at the latest. Applications for the standardized tests, school catalogues, and other relevant materials are available in 105 Milbank.

PROGRAM PLANNING FOR PRE-LAW STUDENTS

There are no specific course requirements for entry to law school, nor is there any specifically recommended major. Admission to law school is based largely on grade point average and Law School Admission Test scores although other factors are taken into account. Students are encouraged to develop strong skills in writing and in speaking with precision, and to take programs that require demanding critical analysis and effective study habits. Information about law schools and what makes a good lawyer can be found in the Official Guide to U.S. Law Schools, an annual publication of the Association of American Law Schools. Copies may be consulted in the Office of the Dean of Studies, 105 Milbank, which also collects law school catalogues and other relevant information.

Pre-law students are encouraged to make themselves known to the pre-professional advisers in the junior year or earlier. The LSAT should be taken in June or October of the year prior to expected entry to law school; the June test is recommended because it allows for better planning. Applications for the LSAT and for the Law School Data Assembly Service (a required transcript analysis procedure) arrive in March each year and can be picked up in 105 Milbank any time thereafter.

PROGRAM PLANNING FOR STUDENTS INTERESTED IN JOURNALISM, ARCHITECTURE, SOCIAL WORK AND BUSINESS

Curricular planning should be made with an eye to some of the specific requirements in each of these fields. Familiarity with professional school catalogues in these areas is recommended. Information and printed literature is available in the Office of the Dean of Studies and in the Office of Career Services.

CREDIT FOR SUMMER STUDY

Students are expected to complete the work for the degree in eight academic terms. The granting of course credit for summer courses taken at other accredited institutions is treated as transfer credit, with some additional regulations. The maximum number of summer points that can be applied toward the degree for course credit is 16, subject to the approval of the Committee on Programs and Academic Standing. Although a student cannot receive degree credit for summer courses exceeding this maximum, she can fulfill degree requirements with additional summer courses, subject to the approval of the Committee on Programs and Academic Standing, and in some cases, subject to satisfactory performance on a Barnard placement examination. The full regulations on credit for summer study are available at the Office of the Registrar on the Application for Approval of Summer Session Courses. The student may learn in advance whether the courses she wishes to take in summer school meet the approval of the Committee on Programs and Academic Standing by completing the form and submitting it to the Office of the Registrar well before the end of the Spring Term. Although the application may also be retroactive the student places herself at risk of being denied degree credit if she fails to receive prior written approval from the Committee. The student is advised to consult the application for the full regulations, some of which are listed below:

1. No more than eight points may be counted for one five- or six-week summer session.
2. To be eligible for credit, a course normally must meet for at least five weeks.

3. Grades for courses taken in summer school must be letter grades in the A to C range; they are not included in the cumulative grade point average. These courses and grades will, however, be considered for admission to graduate or professional schools, which normally require the submission of an applicant's transcripts from all the American and Canadian colleges she attended.

STUDY ABROAD

Several options for study abroad are available to academically qualified Barnard students. The Faculty has set the following guidelines for eligibility. By the time they plan to study abroad, students should:

- be competent in the language of instruction abroad, or, when the language of instruction is English, have some knowledge of the language of the host country;
- have completed all or nearly all of the basic requirements for the degree;
- have no outstanding Incompletes;
- have a good academic record;
- have worked out, in consultation with the major and study abroad advisers, a plan for the completion of all major and college requirements for graduation.

The educational interests of each applicant are of primary concern to the staff of the Dean of Studies in acting on a student's request to study abroad for degree credit. Interested students should begin the process of applying to study abroad by consulting the Assistant Dean responsible for study abroad advising in the Office of the Dean of Studies during the first semester of the sophomore year. Students must obtain the approval of the study abroad adviser, the class dean, and the major adviser in order to receive the College's permission to study abroad for credit toward the Barnard degree.

Barnard offers opportunities for junior-year students to study in Great Britain at Oxford (Somerville College), Cambridge (Newnham College), The University of London (University College, London School of Economics, Queen Mary and Westfield College, and King's College) and the University of Warwick. Admission to these colleges is competitive.

Barnard students who wish to study for degree credit in Paris may apply to the **Reid Hall** program, which offers a varied and attractive curriculum in French language, literature, culture, art history, film studies, and women's studies. In addition to the courses offered at Reid Hall, students with sufficient preparation may enroll in courses in the French university system in a variety of academic disciplines. To qualify for admission to Reid Hall, the student must have completed two years of college French with grades of B or better. It is possible to spend one term or an academic year in Paris. Each term over 100 students take part in this program. Some are French majors, but most are not. The student body is composed of undergraduates from Barnard and Columbia, as well as those from other colleges and universities. Reid Hall is owned and administered by Columbia University. It is located in the Montparnasse district of Paris near Luxembourg Gardens. The administrative staff of Reid Hall assists students in planning academic programs and in finding housing accommodations. Bulletins and applications are available in General Studies, 419 Lewisohn Hall, and in 104 Milbank. Interested students should see the appropriate Assistant Dean in the Office of the Dean of Studies to discuss their plans and to have the Dean review and sign their applications. To receive degree credit for courses taken at Reid Hall, the approval of the Committee on Programs and Academic Standing is required on a special form available at the Office of the Registrar.

OTHER ACADEMIC OPPORTUNITIES

Barnard participates in the program of the **Intercollegiate Center for Classical Studies in Rome**. Students who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be counted toward the major and, in some cases, toward the fulfillment of the distribution requirements.

Barnard is a Supporting Institution of the **American School of Classical Studies at Athens** and the **American Academy in Rome**, and certain privileges of those schools are available, without fee, to graduates of the College.

Barnard also offers the opportunity for study in Japan at the **Kyoto Center for Japanese Studies** through its participation with Columbia in a consortium organized by Stanford University and several other institutions.

Course credit for courses taken at institutions abroad, other than the Barnard program in Paris, is generally treated as transfer credit (see page 36).

STUDY AT JEWISH THEOLOGICAL SEMINARY

The Jewish Theological Seminary of America, located two blocks from the Barnard campus, offers opportunities to Barnard students for specialized study under a cooperative arrangement. Students may enroll in courses at the Seminary under any of three options: (1) individual courses; (2) a year's study in residence at the Seminary; or (3) a double degree program.

A student wishing to study at the Seminary should consult her adviser and obtain the written permission of the chair of her major department. Courses taken at the Jewish Theological Seminary are evaluated as transfer credit (see page 36 for rules on transfer credit). Students who wish to obtain simultaneously the degree of Bachelor of Arts from Barnard and Bachelor of Hebrew Literature from the Seminary must consult the appropriate deans in the Office of the Dean of Studies at Barnard and at the Seminary's List College and must be separately admitted to each institution.

Qualified Barnard students may request housing at the Seminary. Students who enroll in the Seminary College will be subject to both Barnard and Seminary tuition charges. Seminary College students may also apply to the Barnard Admissions Office to become special students or to fulfill the requirements for the A.B. degree at Barnard.

STUDY AT THE JUILLIARD SCHOOL

The Juilliard School at Lincoln Center offers opportunities to Barnard students for individual courses in dance and music. For a five-year program leading to the Barnard A.B. and the Juilliard M.M., rigorous auditions are required for which early application must be made. Students interested in these options may obtain further information and audition dates by consulting the appropriate dean in the Office of the Dean of Studies on their admission to Barnard or as early as possible.

STUDY AT THE MANHATTAN SCHOOL OF MUSIC

The Manhattan School of Music is located one block to the north of the Barnard campus. Under a cooperative program of cross-registration, musically qualified Barnard students who pass required auditions have the opportunity to enroll in six semesters of private music lessons at the Manhattan School, subject to the regulations specified in the application form available at the Office of the Registrar. Majors in Music may take eight semesters of lessons. Students interested in those options should consult with the chair of the Barnard Music Department.

SPECIAL ACADEMIC PROGRAMS

Barnard offers a summer academic program for secondary school students, “Summer in New York: Barnard’s Pre-College Program.” Program information and applications are available in the Office of the Director of Special Academic Programs.

DOUBLE AND JOINT DEGREE INTRAUNIVERSITY PROGRAMS

Barnard offers double and joint degrees in coordination with other schools in the University system, including the School of International and Public Affairs, School of Engineering, and the School of Law. Details on specific programs are given below.

SCHOOL OF INTERNATIONAL AND PUBLIC AFFAIRS

Barnard College and the Columbia University School of International and Public Affairs offer a joint program leading to the A.B. degree at the end of four years and the M.I.A. (Master of International Affairs) after one additional year.

Application to this program is made through the Office of the Dean of Studies by March 1 of the junior year but, to ensure appropriate guidance and preparation, consultation is recommended in the sophomore year with the Senior Class Dean at Barnard. Qualified students nominated by the Dean of Studies complete the application, which is sent to the School of International and Public Affairs by the Senior Class Dean. The nominees will be interviewed by an admissions officer at SIPA. The final decision on admission to the program rests with the SIPA Review Committee. Only four students will be admitted. Acceptance for the joint program is a provisional admission to SIPA for the M.I.A. degree. All provisionally admitted students will be required to submit a formal application to SIPA in the spring semester of the senior year. Formal applications for fellowship consideration are due by January 15; otherwise, applications are due by April 15.

A Barnard student’s eligibility for the joint program with SIPA is governed by the following conditions:

1. A minimum grade point average of 3.3.
2. At least four semesters of matriculation at Barnard before enrolling in the joint program.
3. Fulfillment of all basic and distribution requirements before the senior year.
4. No more than four courses in the major to be completed during the senior year.
5. Completion of introductory courses in microeconomics and macroeconomics and a strong background in quantitative courses.

A Barnard student in the program must satisfy all Barnard degree requirements. Courses in the School of International and Public Affairs may be used to fulfill major requirements only with the written permission of the chair of the major department. As a senior, after consultation with a SIPA dean and her major adviser at Barnard, she will elect 15 to 18 points of SIPA course work, including a substantial part of the SIPA Core “A” Requirement. A typical program would include most of the 12 points of course work at the 4000 level or above in the following areas:

- International politics
- Foreign historical and political processes
- International law
- United States foreign policy

OTHER ACADEMIC OPPORTUNITIES

- International policy analysis and management
- Graduate-level economics

A grade of B or better is required in courses to be credited toward the M.I.A. degree.

GRADUATE PROGRAM IN PUBLIC POLICY AND ADMINISTRATION

Barnard College and the Columbia University Graduate Program in Public Policy and Administration offer a joint degree program (the M.P.A. program) leading to the A.B. degree at the end of four years and the Master of Public Administration after one additional year.

Application to the program is made directly to the Graduate Program in Public Policy and Administration at the School of International and Public Affairs, but the Senior Class Dean and the faculty adviser for this program, Professor Demetrios Caraley, Chair of Political Science (409 Lehman), should be consulted before the application is filed, preferably as early as the sophomore year. Admission to the joint program does not constitute automatic admission to the M.P.A. program. The student in the joint program applies for admission to the graduate program in the autumn term of her senior year. Final admission is conditional upon the applicant's receiving the A.B. degree from Barnard with an approximate grade point average of 3.5.

A Barnard student in the joint program must satisfy all basic, distribution, and major requirements for the A.B. degree at Barnard. Courses in the graduate program may be used to fulfill major requirements only with the written consent of the chair of the department in which the student is majoring. During the junior and senior years she must complete at least 24 points of course work at the 4000 level or above, including the first-year required core courses specified in the Bulletin of the Graduate Program in Public Policy and Administration. An internship, usually during the summer between the fourth and fifth years, is also required. In the fifth year of the program a student completes at least 30 points, including a workshop and policy specialization requirements.

SCHOOL OF LAW

Barnard College has the option of nominating, in conjunction with the Columbia University School of Law, two outstanding juniors each year to enter the Law School under the Accelerated Program in Interdisciplinary Legal Education (A.I.L.E.).

Each student must submit a record of 90 points, 60 of which will have been completed at Barnard. She must have fulfilled all degree requirements except those for the major, which she must be able to complete together with the final 30 points at the Law School. Twelve of the 30 must be in the liberal arts and the remainder in appropriate law courses.

To be nominated, a student must have an outstanding academic record (3.6 average or above), and have taken the LSAT by March of her junior year with a score in keeping with the median level of accepted applicants to Columbia Law School in that academic year.

Students interested in the program should consult with the appropriate pre-professional dean in the Office of the Dean of Studies early in the junior year and with the Senior Class Dean to ensure fulfillment of graduation requirements. LSAT applications are available in the Office of the Dean of Studies; the test is usually offered in June, October, December and February.

SCHOOL OF DENTAL AND ORAL SURGERY

A limited number of qualified students may wish to enter the Columbia University School of Dental and Oral Surgery after three years of undergraduate work at Barnard. To be eligible for this program, the student must have completed 90 points of academic work at Barnard and all of the prerequisite courses for the School of Dental and Oral Surgery.

To be eligible for the A.B. degree, she must have completed 120 points, 30 of which may be taken at the School of Dental and Oral Surgery, and she must have completed all of the general and major requirements of Barnard College.

A student interested in this option should consult with the appropriate pre-professional dean in the sophomore year for early program planning. Before her admission to the School of Dental and Oral Surgery, she should consult with the Senior Class Dean to make certain that she will be eligible for the A.B. degree.

SCHOOL OF ENGINEERING AND APPLIED SCIENCE

Barnard College and the Columbia University School of Engineering and Applied Science offer undergraduate programs in the professional branches of engineering and in the applied sciences under a cooperative program. In addition to the general admission requirements, course work in mathematics through trigonometry, physics, and chemistry is desirable for entering students interested in engineering or applied science.

The first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a few courses may be taken in the School of Engineering and Applied Science. During the junior year the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken. Completion of the basic, distribution, major, and physical education requirements is required for the Barnard A.B. degree. A maximum of 30 points may be credited for engineering courses. Students interested in the program are encouraged to consult the adviser for combined programs in the Office of the Dean of Studies to plan an appropriate schedule of courses.

It is also possible to follow a four-year program which leads only to the Bachelor of Science degree. Two years of pre-engineering subjects are taken at Barnard, after which the student applies for admission to the School of Engineering and Applied Science. The remaining two years of engineering study are completed there.

Details of specific entrance requirements are available from the Office of Admissions of the School of Engineering and Applied Science and from the appropriate dean at the Office of the Dean of Studies at Barnard. Further information about the engineering program and the advanced degrees may be obtained in the bulletin of the school.

AUDITING

STUDENT AUDITING

Matriculated students may audit courses in special instances by arrangements with the instructors. Permission to audit a course is granted at the instructor's discretion. Courses audited do not appear on the student's program or transcript; they are not graded; and they may not be subsequently converted to credit courses.

ALUMNAE AUDITING

Many Barnard courses are open to alumnae for auditing. No credit is given and no charge is made. The only requirement is that permission of the instructor must be obtained. Those interested in this program should contact the Alumnae Office and request a copy of the current catalogue and information about procedures.

REGISTRATION

REGISTRATION FOR NEW AND CONTINUING STUDENTS

Instructions and materials for registration are enclosed in individual packets distributed in Altschul Hall to students on the days designated for registration.

Students are expected to register during the registration times published in the College Calendar. Permission to register may be refused to students who do not observe the deadline for registration. Those students who have permission to register late will be assessed additional fees, as posted at the Registrar's Office.

Bills for tuition and fees (see page 23) are mailed before the beginning of the semester, and payment must be received by the deadline published in the College Calendar. In addition, any outstanding debts to the College or University, including library fines, must be paid before the student may register.

The final stage of the registration process is program filing (see below), which must be completed by the deadline published in the College Calendar. If for some compelling reasons students must enroll in less than a full-time program, the written permission of one of the deans in the Dean of Studies Office is required.

REGISTRATION FOR RESUMED EDUCATION STUDENTS

Resumed Education students are those Barnard students who have been away from the College for five years or more and are returning to complete the A.B. degree requirements and those Barnard graduates who are returning to the College to take additional course work. Resumed Education students are subject to regular registration procedures and deadlines and payment of late registration fees.

REGISTRATION FOR COLUMBIA UNIVERSITY COURSES

Many courses offered in other divisions of the University are open to qualified Barnard students; those cross-listed in the Barnard Catalogue do not normally need special approval; all undergraduate courses listed in the Columbia College bulletin do not need special approval unless so indicated in the course description. Other courses not cross-listed in the Barnard Catalogue may require divisional or instructor's approval in addition to the approval of the student's academic adviser. Columbia University courses are entered on the Barnard program; specific instructions are enclosed in the registration packet. The student is expected to have reviewed the course description and prerequisites before consulting an adviser, to determine for herself whether she is eligible to enroll.

Certain Columbia courses are sectioned prior to registration. Barnard students wishing to register in such courses must take part in the sectioning procedure.

Only students enrolled in the Education Program are eligible to take the Teachers College methods courses cross-listed in the Catalogue. All Teachers College courses which are not cross-listed require approval of the Barnard Dean of Studies by submission of a petition form during the first week of the term, and also require payment of additional Teachers College fees.

STUDENT PROGRAMS

PROGRAM FILING

The list of courses for which the student is registered each semester is known as the student's program.

Each student is required to attend the appropriate program-planning meeting at the end of each semester (see College Calendar) and to consider seriously her selection of courses for the following semester.

During the program-planning period each first-year student and first-semester sophomore files her tentative program for the following semester with the Registrar. Each senior, junior, and second-semester sophomore is expected to consult with her major adviser about her program for the following semester.

During the program-planning period, various departments post sign-up sheets for laboratory courses, sectioned courses, and limited-size courses. A student who wishes to enroll in such a course or courses must enter her name on these sheets to ensure a place for the following semester.

Between registration and the date for program filing a student is required to reach a final decision on the courses she will take for the term. The final program, signed by her academic adviser, is filed at the Office of the Registrar before the published deadline. There is **no refund** issued for courses dropped after the published deadline for program filing, **and any part-time program filed after that date will be assessed full tuition.**

Note: the deadline for submission of programs is separate from, and somewhat later than, the registration deadline (see College Calendar). Programs filed late must be approved by each instructor and the Committee on Programs and Academic Standing, and will be assessed additional fees, which will be posted at the Registrar's Office. A student who neglects to file a program is subject to academic probation.

ADJUSTMENT OF FEES AND REFUNDS FOR CHANGING PROGRAM OF STUDY

If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration of her program is made by September 18 (last day of program filing) in the Autumn Term and by January 29 in the Spring Term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

SCHEDULE OF CLASSES AND ROOM ASSIGNMENTS

Class times and room numbers are published in the Schedule of Classes, available during registration. Final information on changes in Barnard-taught courses (class times and rooms) is posted at the entrance to Milbank Hall. Disabled students needing wheelchair-accessible classrooms should provide this information to the Registrar during program planning.

COURSES WITH LIMITED ENROLLMENT

Enrollment in certain courses is strictly limited and students are encouraged to indicate their intent to enroll in those courses well before registration by entering their names on "sign-up" sheets which are posted outside departmental offices and which list criteria for course enrollment.

ADDING COURSES

Courses may not be added after the deadline for filing academic programs. Up to that deadline, the student may add courses either on the program form, if she has not already submitted it, or by an Application to Add a Course, available at the Office of the Registrar. Adding a course requires the signatures on either the program or add form of the class adviser (first-year student or sophomore) or the major adviser (junior or senior).

DROPPING COURSES

Courses may be dropped by submission of an Application to Drop a Course or Section, available at the Office of the Registrar. The form requires the signature of the class adviser (first-year student or sophomore) or the major adviser (junior or senior), and must be

REGISTRATION

returned to the Office of the Registrar before the deadline published in the College Calendar. Courses dropped by the deadline will not be recorded on the permanent transcript. If withdrawal from a course is approved after the deadline to drop and by the deadline to withdraw, the course will be recorded on the permanent transcript with the notation W (Withdrawal). Action on any course which ends prior to the above dates must be taken before the last class meeting. No adjustment of fees (including any laboratory fees) is made for any course dropped after the deadline for program filing.

ATTENDANCE

Students are expected to attend classes regularly. Frequent or prolonged absences from classes may cause a student to forfeit the right to complete course work or to take final examinations.

A prolonged or serious illness is considered an excuse for absence only if the student files a statement signed by her physician with the Office of Health Services immediately upon her return to a regular attendance schedule.

POLICY ON RELIGIOUS HOLIDAYS

It is the policy of Barnard College to respect its members' observances of their major religious holidays. Conflicts with such holidays will normally be avoided in the scheduling of required academic activities and essential services, including registration, deadlines that are part of the academic calendar, and final examinations.

In any instance of unforeseen or unavoidable scheduling conflict, student and instructor will work out suitable arrangements for satisfaction of academic requirements; in some instances, consultation with a dean or director may be appropriate. A listing of major religious holidays is distributed before the Autumn Term to all members of the faculty and administrative staff.

WITHDRAWAL AND READMISSION

A student not subject to discipline for infraction of College rules may withdraw from the College during the semester by submitting a Notice of Intention to Withdraw form to the Office of the Dean of Studies with the signature of the parent or guardian before the final examination period. If the student withdraws during the semester without submitting the proper notification, the term's work is subject to a grade of UW. (For information on partial refund of tuition, see page 24.) A student who plans not to register for the following term should file an appropriate form in the Office of the Dean of Studies.

A student in good health who leaves with her record complete and who is in satisfactory standing is eligible for readmission. She must submit a written confirmation of her intention to return to the Dean of Studies by April 1 for the Autumn Term or November 15 for the Spring Term. A readmission fee of \$100 must accompany each application for readmission.

EXCEPTIONS TO COLLEGE REGULATIONS

Requests by students for exceptions to college regulations governing the award of academic credit and requirements for the degree may be addressed to the Faculty Committee on Programs and Academic Standing. Petition forms are available at the Office of the Registrar and should be returned there. Requests which bear the appropriate signatures of advisers and instructors normally receive consideration within two weeks of their submission.

EXAMINATIONS

LANGUAGE PLACEMENT EXAMINATIONS

The foreign language requirement can be met by completing the required courses at Barnard (for individual languages see departmental curriculum statements), or by a College Entrance Examination Board (CEEB) score of 750 or above, or, for transfer students, by having completed acceptable qualifying language courses.

Transfer Students

A transfer student who has a CEEB score is placed according to that score alone, if she has had no previous college language courses. The determination is made according to the provisions of an established scale (see page 32). A transfer student who has no CEEB score or previous college language courses, must, if she wishes to continue with a particular language, take a placement test. Transfer students who are not required to take an examination are notified of language placement along with the evaluation of their transfer credit.

First-Year Students

First-year students are placed (or exempted) on the basis of their CEEB scores. Those with no scores who wish to continue languages studied in high school take placement examinations. The Class Dean advises all new first-year students of their language requirements.

Summer School Language Courses

Students, other than incoming transfer or first-year students, who take summer language courses and wish exemption or placement in their continuing language studies must take a language placement examination, or secure departmental approval to receive degree credit and enter a higher level.

A student who does not wish to continue with a language in which she has been placed may begin the study of a new language.

Applications for Language Placement Examinations are available at the Office of the Registrar; the examination dates are published in the College Calendar. The examinations are evaluated and placement is made by the appropriate departments. Results are posted at the Office of the Registrar.

OTHER DEPARTMENTAL PLACEMENT EXAMINATIONS

Students may obtain exemption from or placement in certain courses by means of departmental placement examinations, for example in the Mathematics and Physics departments. Information and applications for the examinations are available in departmental offices, and deadlines are particular to each department.

MAKE-UP EXAMINATIONS DURING THE TERM

Instructors are not required to give make-up examinations to students absent from previously announced tests during the term. An instructor who is willing to give a make-up test may request a report of illness from the College physician or acceptable evidence of other extenuating circumstances.

FINAL EXAMINATIONS

No class meetings will be held on required reading days as set forth in the College Calendar. The dates for final examinations, given at the end of each term, are published in the College Calendar. Exact times and room numbers for individual examinations are sent to each student and posted on the bulletin board at the Office of the Registrar at least two weeks in advance of final examinations.

EXAMINATIONS

Barnard examinations are given under the Honor Code which states that a student should not ask for, give, or receive help in examinations, nor should she use papers or books in a manner not authorized by the instructor. She should not present work that is not entirely her own except in such a way as may be approved by the instructor. The Honor Code further implies that any student or member of the faculty who has firsthand knowledge of a violation of these rules has an obligation to report it to the Dean of Studies or Honor Board.

A student who wishes to leave the room before the end of the examination period will submit her blue books to the instructor. If a student becomes ill during the course of the examination, she must notify the instructor and go to the College Physician, Brooks Hall, Lower Level. If less than an hour has expired, a grade of DEF will be recorded on the transcript and she will take a deferred examination. If a student remains for more than one hour of a three-hour examination, she will be graded on the work she has completed.

DEFERRED FINAL EXAMINATIONS

Deferred final examinations for Barnard courses, given in September and January (see College Calendar), are open only to those students who were absent from the regular examinations for reasons of illness or emergency. An instructor may decline to give a deferred examination to a student whose attendance has been unsatisfactory. Exceptions to these conditions can be made only by petition to the Committee on Programs and Academic Standing before the regular examination period begins.

Absence from final exams for reasons of health or other emergencies must be reported to the instructor and to the Office of the Dean of Studies in person or by telephone on the day of the examination. In case of an emergency, the Dean of Studies should be notified. For Columbia-taught courses, the instructor or the Columbia department must also be informed.

Examinations missed in December are to be taken the following January or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a compelling and valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. Applications for deferred examinations are filed with the Office of the Registrar by dates designated in the College Calendar. A payment of a \$10 handling fee for each examination must accompany the application. Arrangements for deferred examinations in other divisions of the University must be made by the student with the instructors, and should be completed during the term following registration for the course.

EXAMINATIONS FOR STUDENTS WITH DISABILITIES

Individual arrangements can be made for disabled students unable to take examinations in the usual manner. Disabled students are normally expected to take their exams with the rest of the class, with disability-related modifications as needed. Students with disabilities who require nonstandard administration should consult with their instructors and the Director for Disability Services about reasonable accommodations. Students should obtain copies of the Test Accommodations Form in Room 7 Milbank and return them at the beginning of each semester.

SAT, GRE, AND LSAT EXAMINATIONS

Information and application forms for the Scholastic Aptitude Examination, the Graduate Record Examination, the Law School Admissions Test, and other specialized examinations are available in the Office of the Dean of Studies.

GRADING AND ACADEMIC HONORS

GRADING SYSTEM

Academic standing and eligibility for graduation are determined by both the number of courses completed and the grades achieved. The system used at Barnard is as follows:

A+, A, A-	Excellent
B+, B, B-	Good
C+, C	Satisfactory
C-, D	Unsatisfactory but passing
F	Failure
P	Passed without a specific grade on student's election of P/D/F option
P*	Passed in a course for which only a grade of P or F is allowed
I	Incomplete
X	Absence from final examination
Y	For the first half of a two-semester course in which the grade for the second semester is the grade for the entire course
W	Approved withdrawal after "drop" deadline
UW	Withdrawal from course without official notification to Registrar

Pass/Fail grades are recorded for all students in certain courses, e.g., in physical education. Pass/Fail grades for individual students are subject to regulations described below.

Grades of I or X that were recorded in 1980-81 or before will be changed to NC (no credit) if the missing work is not submitted and the portion of the course work that had been completed was passing; beginning 1981-82 the unsubmitted work has been calculated as zero in averaging the final grade. If the work completed was not passing, the grade will be changed to F.

In the computation of grade point averages, marks for courses are awarded on the following scale:

A+ = 4.3	B+ = 3.3	C+ = 2.3	D = 1.0
A = 4.0	B = 3.0	C = 2.0	F = 0
A- = 3.7	B- = 2.7	C- = 1.7	

In order to be recommended for the degree, a student must maintain a cumulative average of 2.0 (C) for 120 or more points completed with passing grades. At the end of each term all records are examined. Normally only those students with cumulative averages of 2.0 or above are permitted to remain in college. Students whose work falls below the cumulative average of 2.0 may be permitted to continue at Barnard only with the permission of the Committee on Programs and Academic Standing.

Courses in which the student receives the grade of D may not be counted toward the major requirement or the minor option. Required courses graded D that must be retaken for a higher grade to satisfy requirements for the major or minor will not receive degree credit when repeated.

GRADE REPORTS

The grade report for the Autumn Term is enclosed in the student's registration packet in January. At the end of the Spring Term, a cumulative grade report of all the student's work at Barnard is sent to the home address. The cumulative grade report is an unofficial transcript for which there is no charge. A student may request that her grade reports be sent to her parent(s) or guardian by filing a permission card with the Registrar. Parents who have established their daughter's status as a dependent may receive transcripts of her grades without her consent by writing to the Dean of Studies. If the student wishes additional transcripts, a charge of \$2 per copy will apply (see Transcripts, page 53).

GRADING AND ACADEMIC HONORS

PASS/D/FAIL OPTION

A student may request a course to be graded under the Pass/D/Fail option by submitting a Request for Pass/D/Fail form in duplicate to the Office of the Registrar before the deadline published in the College Calendar. The forms are available at the Office of the Registrar about two weeks before the deadline. Under the Pass/D/Fail option the student is held responsible for fulfilling all the course requirements. A passing letter grade of A, B, or C reported by the instructor is converted to P by the Office of the Registrar. A grade of D or F is not converted.

Some courses record Pass/Fail grades for all students enrolled, e.g., ENG BC 1202. Of the 120 points required for the degree, a maximum of 21 points of course work may receive a grade of Pass, whether elected or mandated (e.g., English BC 1202). The P/D/F option cannot be elected for First-Year English or any course designated to count toward the major or the minor.

No limitation is placed on the number of Pass grades that may be recorded in a single term, except those rules that apply to Dean's List, to eligibility for financial aid, and to the overall 21-point maximum.

Grades of P are not included in the grade point average. Grades of D or F, whether or not received under the Pass/D/Fail option, are computed. If the total number of points excluded from calculation in the grade point average exceeds 34, a sliding scale requiring higher qualifying averages is used to determine eligibility for general honors at graduation. (Like courses graded Pass, points credited for A. P., baccalaureates, some transfer work, and all summer courses are not calculated in the grade point average.)

The request for a course to be graded under the Pass/D/Fail option is irreversible. Subsequent change to a letter grade will not be allowed, and the option may not be elected retroactively.

INCOMPLETES

A student may for compelling reasons arrange with her instructor to take a grade of I (Incomplete) by means of written approval on forms available at the Office of the Registrar. The deadline for filing the Application for Incomplete is the last day of the reading period. However, in a course without a final examination, the deadline is the day before the final paper is due if that date precedes the last day of the reading period.

There are two Incomplete options. The "early Incomplete" requires submission of unfinished work to the Registrar soon after the end of the term by the date designated in the College Calendar and results in the removal of the "I" notation from the transcript. The second option extends the deadline to the first day of classes for the next Autumn Term, but the "I" notation remains on the permanent transcript and is joined by the final letter grade. The full regulations that apply to Incompletes are listed on the Application for Incomplete form available at the Office of the Registrar. A student must have the permission of her instructor to qualify for an Incomplete, and is required to use the form, which is a written guarantee of the terms set forth in it by the instructor.

ELIGIBILITY FOR STUDENT GOVERNMENT OFFICES

To be a candidate for election to a student government office, a student must be in good academic standing and free of disciplinary action for at least one year.

ELIGIBILITY FOR INTERCOLLEGIATE ATHLETICS

Any student at Barnard College, Columbia College, or the Columbia School of Engineering and Applied Science who is pursuing the undergraduate program or a combined program toward a first degree is eligible for intercollegiate athletics, provided that certain conditions are met. To be eligible for athletic activities, the student must

- be a candidate for a bachelor's degree;
- be registered for at least 12 points of credit per semester;
- be in satisfactory academic standing;
- have passed by the beginning of the academic year 24 points if in the second year, 52 points if in the third year, or 86 points if in the fourth year;
- have attended the University for not more than eight terms;
- not have completed the requirements for a bachelor's degree.

An eligibility blank must be filed with the Director of Athletics. The completed blank is sent to the Office of the Registrar where eligibility is determined by examining the student's record. Questions about eligibility should be referred to the Dean of Studies.

DEAN'S LIST

The Dean's List, which includes the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. To be eligible, a student must be enrolled at Barnard for both terms, and complete a minimum of 12 letter-graded points each term. (P-graded points are excluded.) Her grade point average will be based on all her letter grades in the A to F range.

TRANSCRIPTS

Transcripts are ordered by the student or alumna by written request to the transcript secretary in the Office of the Registrar. An official Transcript Request Form is available, but the request may also be made by letter, provided that the letter includes the following: student's name (including maiden and married names) and Social Security number, dates of attendance at Barnard, purpose of the transcript, number of copies desired, specifications as to whether the transcript should or should not be delayed until the latest semester's grades have been entered, name(s) and address(es) to which the transcript is to be sent, the student's full signature, and a \$2 check or money order for each transcript ordered. Official copies of transcripts (those bearing the seal of the College) can be sent only to academic institutions, business organizations, and government offices. Unofficial copies of transcripts may be sent to the student. All copies of transcripts, official and unofficial, are sent only at the written request of the student, and are subject to the \$2 fee. There is no charge, however, for a transcript sent to a division of the University. Barnard will not send copies of transcripts from other schools; they must be requested directly from the institutions attended.

HONORS

The Faculty awards honors to students who complete work for the degree with distinction (*cum laude*), with high distinction (*magna cum laude*), and with highest distinction (*summa cum laude*). Students whose records include study at other institutions will be eligible for honors if both the overall and the Barnard grade point averages meet this requirement. Grades for summer work are excluded from the grade-point average. If the total number of points for summer credit, for courses graded P or P* and for transfer

GRADING AND ACADEMIC HONORS

grades unconvertible to Barnard equivalents exceeds 34 of the 120 points for the degree, the qualifying averages are computed on a sliding scale. Departmental honors are awarded to a percentage of eligible graduates nominated by their departments for distinguished work in their major fields. The final selection is made by the Committee on Honors.

PHI BETA KAPPA

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible. Junior election will require a minimum of 86 completed points and senior election, 102. Questions concerning Phi Beta Kappa should be referred to the Senior Class Dean in the Office of the Dean of Studies.

COURSES OF INSTRUCTION

THE CURRICULUM

The Barnard curriculum consists of forty-two departments and programs. At present, twenty-eight departments and ten interdisciplinary programs offer majors, and students may also elect minors if they wish. All academic programs listed are planned for 1992-93; their listing in this catalogue is not a guarantee of their availability, and the College may revise its degree requirements from time to time.

CLASSES

The usual schedule consists of 15 points each semester, but depending on a student's interests or departmental requirements, additional courses may be added. However, an additional fee is charged per point for a program exceeding 18 points (see page 23 for the fee schedule). Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into smaller groups for conference and discussion. Laboratory work in the sciences is conducted with modern equipment, and computer facilities are available at Barnard.

COURSES OF INSTRUCTION

Course descriptions will be found in the following pages. Room assignments and all other registration information are published in a separate bulletin and distributed during registration.

Autumn term courses are followed by an x; Spring term courses are followed by a y.

Indivisible **Barnard** courses that run throughout the year are marked with a hyphen between the numerals (e.g., Spanish V1101-V1102). No credit is given for work in an indivisible course dropped at midyear without the written consent of the instructor and department chairman and the approval of the Committee on Programs and Academic Standing. However, **the first semester of elementary language, whether taken at Barnard or elsewhere, does not receive degree credit unless the second semester is completed.**

Divisible Barnard courses, which run throughout the year, are marked with a comma between the numerals (e.g., Environmental Science BC 1001x, BC 1002y). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only with written permission of the instructor. Certain courses are offered in both Autumn and Spring terms (Economics BC 1001x, BC 1001y) and may be taken in either term.

The following alphabetical prefixes designate the division of the university for whose students the course is primarily offered or indicate joint courses. The aforementioned regarding hyphens and commas between course numbers for BC courses do not necessarily apply to courses offered by other faculties.

- BC – Barnard College
- C – Columbia College
- F – School of General Studies
- G – Graduate School of Arts and Sciences
- H – Reid Hall, Paris
- R – School of the Arts
- V – Joint undergraduate course (Barnard with Columbia College and/or the School of General Studies)
- W – Other inter-faculty course

The level of the course is generally as follows:

- 1000-3999 Undergraduate
- 4000-4999 Advanced undergraduate and first-year graduate
- 5000-8999 Graduate, normally not open to undergraduates

This program is supervised by the Committee on American Studies:

Professor of History: Rosalind N. Rosenberg (Director)

Adolph S. & Effie Ochs Professor of English and American Studies: Robert G. O'Meally

Associate Professor of Anthropology: Nan Rothschild

Professor of Art History: Barbara Novak

Associate Professor of English: William Sharpe

Professor of History: Robert A. McCaughey (Dean of the Faculty)

Assistant Professor of History: Beth Bailey ¹

Professor of Political Science: Demetrios Caraley

Associate Professor of Religion: Randall Balmer

Assistant Professor of Religion: Judith Weisenfeld

Associate Professor of Sociology: Jonathan Rieder

Professor of Spanish: Alfred Mac Adam

¹ Absent on leave 1992-93

The American Studies Program offers an interdisciplinary major for students who want to study the society and culture(s) of the United States by focusing on a central subject, theme, or set of questions. In consultation with the program director, each student chooses an adviser from among several departments, and works closely with the program director and her adviser to define a thematic concentration within the major. For example, a student might define her concentration as "Gender and American Culture," or "19th-Century American History and Literature," or "The African-American Experience," or "Culture and Politics," or "Community in American Society." Required courses in American history and literature, as well as the junior colloquium and senior seminar, offer a solid foundation for interdisciplinary study.

Prospective majors must see the program director for more information about structuring concentrations and help in selecting an adviser. The program director can provide examples of possible programs and access to a file of syllabi from American Studies courses in other departments.

REQUIREMENTS FOR THE MAJOR

The American Studies major requires a minimum of 12 courses:

1. Two-semester sequence American History Survey, HIS BC 1051 and 1052. Majors are urged to complete this requirement by the sophomore year. This requirement may be waived for those with scores of 4 (waives one semester) or 5 (waives both semesters) on the Advanced Placement Exam. Those students should substitute two upper level American history courses.
2. One semester of the American Literature sequence (ENG BC 3179, 3180, 3181, 3182).
3. Junior Colloquium: Approaches to American Cultural History, AMS BC 3401 (offered only in Autumn term).
4. Senior Seminar (AMS BC 3703 and 3704). In some cases, a senior seminar sequence in one of the departments may be substituted for AMS BC 3703 and 3704.

5. A set of at least six courses organized around a theme or subject. One of the six courses must be a seminar or colloquium. The program director and adviser must approve both the theme and the set of courses the student selects for the concentration.

No minor is offered in American Studies.

COURSES OF INSTRUCTION

AMERICAN STUDIES-HISTORY

ASH BC 3401x

Approaches to American Cultural History

Colloquium on methodologies of American Studies. With the participation of American Studies faculty from several departments, students will learn about different sources and methods that can be used to study a given subject. Topics will vary.—N. Woloch
4 points. M 11:00-12:50

AMS BC 3703x, 3704y

Senior Seminar

Individual research on topic related to major thematic concentration and preparation of senior thesis.—Staff

Enrollment limited to senior majors.

4 points. W 4:10-6:00

AMS BC 3999x, AMS BC 3999y

Independent Research

—Staff

3 or 4 points. Hours to be arranged

AMERICAN STUDIES COURSES IN OTHER DEPARTMENTS

Students should consult appropriate department listings for complete information about these courses:

Anthropology

- V 1002 Interpretation of Culture
- V 1007 The Origins of Human Society
- V 3002 Political Anthropology
- V 3011 Living in Society: Social Relations
- V 3038 Ethnicity and Race
- V 3041 Theories of Culture: Past and Present
- V 3070 The Study of Cities: An Archaeological Perspective
- V 3100 Anthropology of Urban Life
- V 3128 Microbes, Magic, and Medicine
- V 3712 Lines That Divide: Race, Class, Gender and Ethnicity in Contemporary America
- V 3713 Ties That Bind: Institutions and Communities in Contemporary America
- BC 3868 Ethnographic Field Research in New York City
- W 4254 Archaeology of American Southwest

Art History

- AWS BC 3123 Women and Art
- W 4624 American Painting, 1760-1900

Dance

- BC 1247, 2248, 3249 Jazz Dance I, II, Advanced
(all three required)
- BC 2566 History of Dance: Renaissance to the Present
- BC 3574 Contemporary Choreographers and Their Works

Economics

- BC 2010 Sex Discrimination and the Division of Labor
- BC 2013 Economic History of the United States
- BC 2014 Topics in American Economic History
- BC 3011 Poverty and Income Distribution
- BC 3044 U.S. Industrial Policy

English

- BC 3140
 - Sec. 2 Explorations of Black Literature: 1760-1890
 - Sec. 20 Middle Fictions: Song Stories, Short Novels, Novellas
 - Sec. 21 The Jazz Shape of American Culture
- EWS BC 3144 Minority Women Writers in the United States
- BC 3179 American Literature Before 1865
- BC 3180 American Literature, 1865-1914
- BC 3181 American Fiction
- BC 3182 American Literature, 1914 to the Present
- BC 3185 Modern British and American Poetry
- BC 3189 Post-modern Literature
- BC 3997, 3998 Senior Seminar
(with instructor's permission)
 - Sec. 7 American Literature: Issues of History and Memory in American Writing
 - Sec. 31 James and Wharton
- W 4621 African-American Texts: Harlem Renaissance and Beyond
- ETR BC 3138 American Political Drama

AMERICAN STUDIES

History

- BC 1051, 1052 Survey of American Civilization
BC 3052 The Constitution in Historical Perspective
BC 3056 The American Civil Rights Movement
BC 3067 America Since 1945
BC 3071 American Cultural History
BC 3074 History of Sexuality in America
BC 3082 American Women in the Twentieth Century
BC 3083, 3084 American Intellectual History
BC 3085 America in the 1960's
BC 3444 Bourgeois America
BC 3450 History of Childhood in America
BC 3452 Origins of the Constitution
BC 3459 Education in American History
BC 3460 Progressive Women
BC 3464 Higher Learning in America
BC 3478 The New Deal and the Modern State
BC 3489 The Fourteenth Amendment and Its Uses
W 3004 African Cultures from Pre- to Post-Colonial Times
HIR V 3750 Introduction to African-American History and Culture

Music

- V 2010 Race, Gender and the Politics of Rock 'n' Roll
V 2016 Introduction to Jazz

Philosophy

- ESP BC 3025 Ethics and Environment
BC 3147 Philosophical Issues of Feminist Theory
BC 3758 Philosophy of Education
BC 3780 Philosophy of Law

Political Science

- BC 3001 Dynamics of American Politics
V 3313 American Urban Politics
BC 3322 The American Congress
BC 3326 Colloquium on Civil Rights and Liberties
BC 3327 Colloquium on the Content of American Politics
V 3328 Women and American Politics

- BC 3331 Colloquium on American Political Decision Making
BC 3335 Mass Media and American Democracy
BC 3433 Concepts of Democratic Political Theory
W 4311 American Parties and Elections
W 4316 The American Presidency

Religion

- V 3755 African-American Religion
V 3803
Sec. 13 Mormonism
Sec. 35 Religion and Cultural Contact: The Colonial Americas
V 3804
Sec. 37 Black Women's Religious Experiences
Sec. 40 Women and Religion in American History
V3502 The History of Religion in America I
V 3503 The History of Religion in America II

Sociology

- BC 1002 Introduction to Sociology
V 1005 Medical Care in Twentieth Century America
V 3200 Gender, Class, and Race
V 3213 Culture in Contemporary America
V 3303 Female and Male: A Sociological Perspective
V 3310 Women and Deviance
V 3320 Social Problems
V 3555 Sociology of Family Institutions

Spanish

- BC 3203 20th Century Women Poets of the Americas: Kindred Voices
BC 3204 Literature of the Americas

Women's Studies

- V1001 Women and Men: Power, Politics, Poetry
BC 3111, 3113 Major Texts of the Feminist Tradition, I and II
BC 3117 Women and Film
V 3118 Images of African American Women in Film from 1900-Present
V 3502 Women and Science

ANCIENT STUDIES

216 Milbank Hall

854-2852

This program is supervised by the Committee on Ancient Studies:

Assistant Professor of Art History (Columbia): Alexander MacGillivray (Representative for Columbia)

Professors of Classics: Helene P. Foley (Representative for Barnard), Lydia Lenaghan

Professor of History (Columbia): William V. Harris

Ancient Studies is designed to allow the student to explore various aspects of the ancient Mediterranean and Mesopotamian cultures while concentrating on one of these major civilizations. By studying these cultures in several academic disciplines the student will acquire a general knowledge and a context for her area of specialization. At Barnard and in the University a very large number of courses pertaining to antiquity is offered each year, and the program prepares an annual list to aid students in making their selections. This list may be obtained from the Representative for Barnard.

REQUIREMENTS FOR THE MAJOR

Each student, after consultation with the Representative for Barnard, chooses an adviser whose field is closely related to her own and with whom she will do her senior reading. The programs of all the students are reviewed by the Ancient Studies Committee, in order to maintain control and a sense of collective enterprise.

A total of 36 points are required in the major, including at least four courses in one geographical area or period; courses in at least three departments (to ensure proper interdisciplinary training and experience); the elementary sequence of a relevant ancient language; the appropriate history course, and at least the first semester of *Ancient Studies* V 3998, V 3999.

In some cases, a senior seminar in one of the departments may be substituted for *Ancient Studies* V 3998, V 3999. Ancient language courses may be used toward the major requirement; however, where a second ancient language is offered, one second-year sequence must be offered to gain credit for the first year.

No minor is offered in Ancient Studies.

COURSES OF INSTRUCTION

ANC V 3997x, ANC V 3997y

Directed Readings in Ancient Studies

A program of readings in some aspect of Ancient Studies, supervised by an appropriate faculty member chosen from the departments offering Ancient Studies courses. Testing by a series of essays, one long paper, or oral or written examination(s). —Staff

Permission of the departmental representative required. 3 points. Hours to be arranged.

ANC V 3998x, ANC V 3999y

Directed Research in Ancient Studies

A program of research in Ancient Studies. Research paper required. For 3999y, the topic must be submitted to the departmental representative and the appropriate adviser decided upon

by November 15 of the semester preceding that in which the student will be enrolled in the course. For 3998x, the corresponding deadline will be April 1 of the semester preceding that in which the student will be enrolled in the course. The student and the departmental representative will request supervision of the research paper from an appropriate faculty member in a department offering Ancient Studies courses. —Staff
Permission of the departmental representative required. 3 points. Hours to be arranged.

A list of other relevant courses of instruction offered in 1992-93 may be obtained from the Representative for Barnard.

ANTHROPOLOGY

411 Milbank Hall

854-4316, 5417

Professors: George Bond (Visiting), Morton Klass¹, Abraham Rosman, Paula G. Rubel (Chair), Joan Vincent

Associate Professor: Nan Rothschild²

Other officers of the University offering courses listed below:

Professors: Alexander Alland, Myron Cohen, Ralph Holloway, Don J. Melnik, Harvey Pitkin, Elliot P. Skinner

Associate Professors: Theodore Bestor, Elaine Combs-Schilling, Libbet Crandon, Terence D'Altroy, Katherine Newman

Assistant Professors: Marina Cords, David Koester, Olivier de Montmollin, Glenn Stone¹

¹Absent on leave Autumn term

²Absent on leave 1992-93

Anthropology is the study of the biological and cultural development of the human species, and of the variety of human societies and their cultures. The student majoring in this field will acquire an understanding of humans and their ways that is not bound by her own time and culture. In doing so, she will find herself drawing upon the literature of such diverse disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. Students with a degree in anthropology may undertake graduate and professional study in anthropology; they may also enter upon careers in other fields, such as development, education, government, journalism, law, labor organization, medicine, or social work administration, where the value of a training in anthropology is becoming increasingly recognized. The practical and applied dimensions of anthropology have increased significantly in recent years, and the profession attempts to serve many non-academic needs both in American society and international organizations.

Several major museums and libraries in New York City offer exceptional opportunities for research. Various summer schools provide opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology are encouraged, whenever possible, to conduct research in the New York area, or, during their summer vacations, in other localities.

All courses, except those limited to majors, satisfy the College's distribution requirements. Courses listed as W 4000 are open to majors, non-majors and interested graduate students.

The department also cooperates with related programs such as American Studies, Foreign Area Studies, Pan-African Studies, Urban Studies, and Women's Studies, and with other departments offering, as an option to their majors, a four-course cluster in Anthropology. Arrangements for combined, double, joint, and special majors are made in consultation with the chair.

REQUIREMENTS FOR THE MAJOR

Every major is urged to acquire a general knowledge of the four fields of anthropology (cultural and physical anthropology, archaeology and anthropological linguistics) and of their interrelationship. To this end, the student's program should be designed in consultation with her adviser, and as soon as possible after the declaration of the major. Continuing and frequent meetings with the adviser are encouraged.

Ten courses are required for the major, including:

ANT V 1002 *The Interpretation of Culture*
and one of the following:

ANT V 1007 *The Origins of Human Society*

ANT V 1008 *The Rise of Civilization*

ANT V 1010 *The Human Species: Its Place in Nature*

plus:

ANT V 3011 *Living in Society: Social Relations*

ANT V 3041 *Theories of Culture: Past and Present*

and

BC 3871x-BC 3872y *Problems in Anthropological Research*

plus at least four other courses of the student's own choosing.

In consultation with advisers, programs will be designed so as to reflect the students' interests and plans—whether they intend to go on to graduate studies in anthropology, or expect to enter other fields, such as medicine, administration, public relations, law, social work, and so on.

Senior Essay

All students majoring in Anthropology are required to submit an "Essay" of substantial length and scholarly depth. Such a paper will usually be written during the course of the Senior Seminar or, under special circumstances, and with department approval, in one or two semesters of BC 3999x,y *Individual Projects*.

REQUIREMENTS FOR THE MINOR

The minor consists of five courses: ANT V 1002: one of the following: V 1007, V 1008 or V 1010, plus three other Anthropology courses selected in consultation with the chair.

Prelaw and premedical students who wish to minor in anthropology should seek the advice and approval of the department chair.

COURSES OF INSTRUCTION

GENERAL COURSES

ANT V 1002x,y

The Interpretation of Culture

The anthropological approach to the study of culture and human society. Using case study from ethnography, the course explores the universality of cultural categories (social organization, economy, law, belief system, art, etc.) and the range of variation among human societies.

3 points.

x: Sec. 1 Tu Th 1:10-2:25—A. Rosman

Sec. 2 M W 6:10-7:25—E. Skinner

y: Sec. 1 Tu Th 1:10-2:25—P. Rubel

Sec. 2 Tu Th 4:10-5:25—A. Alland

S

Discussion hours to be arranged.

ANT V 1007x, y

The Origins of Human Society

An archeological perspective on the earliest forms of human culture in the prehistoric past. Topics include: hominids sharing food; people living in a variety of environments whose economies range from foraging to early agriculture; and the origins of sedentism and social complexity.

3 points. x: Tu Th 2:40-3:55—O. DeMontmollin

y: Tu Th 10:35-11:50—G. Stone S

ANT V 1008y

The Rise of Civilization

The rise of major civilizations in prehistory and protohistory throughout the world, from the initial appearance of sedentism, agriculture, and social stratification through the emergence of the archaic empires. Description and analysis of a range of regions that were centers of significant cultural development: Mesopotamia, Egypt, the Indus River Valley, China, North America, Mesoamerica, and Andean South America. —T. D'Altroy

3 points. M W 2:40-3:55

S

ANT V 1010x

The Human Species: Its Place in Nature

Designed to acquaint students with a variety of scientific disciplines through the investigation of human evolution. Specifically, Darwin's theory of evolution; Mendel's principles of inheritance; major patterns of organic evolution; primate behavior, ecology, and evolution; and the fossil remains and trends in human evolution. —D. Melnick

3 points. M W 11:00-12:15

S

ANTHROPOLOGY

ANT V 1011y

Behavioral Biology of the Living Primates

Study of non-human primate behavior from the perspective of phylogeny, adaptation, physiology and anatomy, and life history. Focuses on the four main problems primates face: finding appropriate food, avoiding being eaten themselves, reproducing in the face of competition, and dealing with social partners. —M. Cords
Prerequisite: V 1010.

3 points. Tu Th 1:10-2:25

S

ANT V 1015y

Multiculturalism:

Ways of Looking at Other Cultures

An anthropological exploration of cultural differences and multiculturalism. Material will be drawn from cultural texts and ethnographies. —A. Rosman

3 points. Tu Th 9:10-10:25

S

Linguistics LIN V 1101x, y

Introduction to Linguistics

See Linguistics listing.

TOPICAL COURSES

ANT V 3002y

Political Anthropology

The development and comparative study of political structure and political processes in non-western societies. —J. Vincent

3 points. Tu Th 2:40-3:55

S

ANT V 3005x

Societies and Cultures of Africa

This course surveys the cultures and societies of Africa, focusing on environmental conditions, language and literature, belief systems, and economic and political change. Particular attention is paid to several recent ethnographies dealing with rural and urban life. —J. Vincent

3 points. Tu Th 4:10-5:25

S

ANT V 3009y

Peoples and Cultures of

North Africa and the Middle East

An introduction to peoples and cultures of the Middle East and North Africa, with an emphasis on Arabs and Islam. Focus on the role of patrilineality, Arabic, commerce, and Islam in the construction of Muslim societies. —E. Combs-Schilling

3 points. M W 1:10-2:25

S

ANT V 3011x

Living in Society: Social Relations

Institutions of social life. Kinship and locality in the structuring of society. Monographs dealing

with both literate and non-literate societies will be discussed in the context of anthropological fieldwork methods. —A. Rosman

Prerequisite: An introductory anthropology course.

3 points. Tu Th 9:10-10:25

S

ANT V 3014x

East Asian Societies and Cultures

Introduction to the contemporary societies of China, Japan and Korea, with special reference to the process of social change; emphasis on the interconnections between local communities and the total national societies. —T. Bestor

3 points. M W 1:10-2:25

S

ANT V 3015y

Chinese Society and Culture

Social organization and social change in China from late imperial times to the present. Major topics include family, kinship, community, stratification, and the relationships between the state and local society. —M. Cohen

3 points. M W 2:40-3:55

S

ANT V 3016x

Peoples of the Pacific

Comparative analysis of the ethnographic setting of Polynesian, Micronesian, and Melanesian populations; emphasis on theoretical contributions achieved and current anthropological problems being considered by researchers in the area.

3 points. Not offered in 1992-93.

S

ANT V 3017x

Caribbean Societies in the Global System

From Columbus to Castro, the societies of the Caribbean as they have been influenced by powerful socio-cultural forces emanating from the global arena. Characteristics of these societies are analyzed from the perspective of theories of pluralism, dependency, and globalism.

3 points. Not offered in 1992-93.

S

ANT V 3024y

Changing Africa

An archaeological approach to understanding how rural and urban Africa populations perceive and deal with the increasing global interest in their approaches to economic, educational, socio-gender, medical, political and philosophical-aesthetic issues — E. Skinner

3 points. M W 10:35-11:50

S

ANT V 3025x

Law, Culture, and Society

The judicial process in multicultural and global perspective. Contemporary issues in legal anthropology will be addressed, including the imposition of law, dispute settlement, legal realism, discourse and ethnography, customary law, legal pluralism and the cultural defense. —J. Vincent
3 points. Tu Th 10:35-11:50 S

ANT V 3027y

Culture and the Individual

Development of personality in various cultural contexts: child-rearing and socialization; the role of personality theories in analyzing social systems and situations of culture change.
3 points. Not offered in 1992-93. S

ANT V 3028y

Culture Contact: Archaeological Ethnohistorical Approaches

An examination of the contact period in the New World using both archaeological and historical data. Topics include the early encounters of the New and Old World, the impacts of European colonization, and the varied responses of indigenous people to the Europeans' arrival.
3 points. Not offered in 1992-93. S

ANT V 3030x

Japanese Society and Culture

From Jomon archaeology to Sony's Walkman: an introduction to Japanese patterns of cultural identity, interpersonal relations, and organizational behavior. Emphasis on socio-cultural factors influencing Japan's emergence as a leading post-industrial society.
3 points. Not offered in 1992-93. S

ANT V 3031x

Scientific Reasoning and Archaeology

An introduction to scientific methods, and to the application of scientific reasoning within the study of archaeology. The emergence of scientific epistemologies since the Renaissance is considered, and the development of modern archaeology as a natural science and as a social science is treated in detail. Students will apply the principles of scientific reasoning to modern archaeological problems.
3 points. Not offered in 1992-93. S

ANT V 3035y

Popular Religion in Chinese Society

Chinese popular religion and ritual during the late traditional period and under the impact of political and social change during modern times.

Popular beliefs and practices concerning the cosmos, the gods, and the ancestors; the role in popular religion of the institutions of Buddhism, Taoism, and the Imperial State Cult; popular religion, social change, and the modern assault on "superstition."

3 points. Not offered in 1992-93. S

ANT V 3036x

Peasant Societies

Introduction to pre-industrial agrarian social systems; patterns of community organization and the relationship between the community and the state.
3 points. Not offered in 1992-93. S

ANT V 3038x

Ethnicity and Race

Analysis and comparison of ethnic and race relations in the context of social change and historical transformation, with particular reference to the United States, Europe, Africa and Asia.
—P. Rubel

3 points. Tu Th 1:10-2:25 S

**Anthropology-Women's Studies ANW V 3039y
Women in Third World Development**

Comparison of women's social and economic roles in both traditional and modernizing societies. Women's roles in the family, community and class structure will be discussed through a detailed examination of a series of ethnographies. —J. Mencher
Prerequisite: An introductory Anthropology or Women's Studies course or permission of the instructor.
3 points. W 2:10-4:00 S

ANT V 3041y

Theories of Culture: Past and Present

Intellectual currents contributing to the development of anthropology as a discipline. Theoretical writings of the anthropological ancestors as well as those of current practitioners will be considered. —J. Vincent
3 points. Tu Th 10:35-11:50 S

ANT V 3044y

Symbolic Anthropology

The ordering of experience through symbols in various cultures. The symbolic significance of natural anomalies, twins, the body, space, time, inversions, jokes and riddles examined through selected readings from Durkheim, van Gennep, Lévi-Strauss, Mary Douglas, Victor Turner, and others.

3 points. Not offered in 1992-93. S

ANT V 3070x

The Study of Cities:

An Archaeological Perspective

A consideration of cities from several points of view; a developmental and comparative perspective, looking at urban origins. Focus on New York City from its inception to the present, examining its spatially defined sub-units ("neighborhoods"), structured by class and ethnicity. 3 points. Not offered in 1992-93. S

ANT V 3100y

Anthropology of Urban Life

A cross-cultural introduction to the rise of cities and contemporary patterns of urban culture, social life, and the use of space. Examines East Asian, Latin American, African, and European cities, as well as New York. 3 points. Not offered in 1992-93. S

ANT V 3115x

Peasants, Class and Conflict in Central America

Historical and ethnographic perspective on the countries of Central America. Exploration of why they constitute, despite their diversity, a "culture area"; and why they are such concern in contemporary American foreign policy. Topics to be covered include: ethnicity and class, dictatorship and democracy, capitalism and socialism, religion, land reform—as well as the social construction of ideologies. —L. Crandon 3 points. Th 6:10-8:00 S

ANT V 3128y

Microbes, Magic, and Medicine

Examination of social and cultural factors as they relate to problems of health, illness, and medicine in the United States and in other societies. —L. Crandon 3 points. Tu Th 6:10-7:25 S

ANT BC 3142x, y

Colloquium: Current Anthropological Theory

Intensive analysis of selected theoretical approaches and issues in anthropology. Enrollment limited to 16 students. 4 points. S

1. Male and Female Cultural Constructions of Gender

An examination of male and female perspectives as they affect analysis of social structure, symbolism and political authority. Not offered in 1992-93.

3. The Study of Cities

The origins, growth and definition of cities are discussed, with particular attention paid to the

spatial organization of cities and the development of neighborhoods. New York City is used as a laboratory for analysis, and each student will choose a part of the city to study. Not offered in 1992-93.

6. Interpretation and Explanation in Anthropology

An examination of the different understandings, interpretations and explanations which have been offered in anthropological theory and research over the past decade. Not offered in 1992-93.

ANT W 3204x

Dynamics of Human Evolution

Seminar focusing on recent advances in the study of human evolution. Topics include: recent fossil discoveries, changing views of human evolution, early hominid social behavior, evolutionary theory, and sociobiology. —R. Holloway Prerequisite: V 3201 or permission of the instructor. 4 points. Th 4:10-6:00. S

ANT V 3215x

Biological Determination and Culture

An examination and critique of biological determinism from the perspectives of history, folklore, biology, and anthropology. 3 points. Not offered in 1992-93. S

ANT V 3405y

History and Time in Anthropology

History and time in anthropology introduces various topics important in understanding areas of relationship between anthropology as a discipline and history both as a form of scholarly inquiry and a mode of thought and experience. The course is divided into six segments, each of which presents a different perspective on anthropology and the way in which it integrates or ignores an historical perspective. —D. Koester. 3 points. Tu Th 6:10-7:25 S

ANT V 3410x

Controversial Issues in Anthropology

A discussion of classic controversies in anthropology, how anthropological ideas have evolved, and some of the issues involved. Fieldwork, the Virgin birth, marriage, symbols and pragmatics, and relativism are among the topics covered. Enrollment limited to 16. 3 points. Not offered in 1992-93. S

ANT V 3500y

Colloquium: Problems in Structuralism

Reading and research in anthropological theories of structuralism; review of works of Claude Lévi-

Strauss, Edmund Leach, and others in relation to relevant work in linguistics, psychology, sociology and philosophy.
Enrollment limited to 20 students.
 4 points. Not offered in 1992-93.

ANT V 3700x
Colloquium: Anthropological Research Problems in Complex Societies
 Study of the local community and its relationship to regional and national societies; discussion of plural societies, minority and ethnic groups in a cross-cultural setting. Cases selected from Africa, Latin America, Asia, Europe, and North America.
 4 points. Not offered in 1992-93.

ANT V 3712x
Colloquium: Lines that Divide: Race, Gender and Ethnicity in Contemporary America
 Focus on qualitative, ethnographic studies of social stratification and division in the United States. Examination of the uses and abuses of concepts of race, class, culture, the culture of poverty, the underclass, gender differences, and ethnic affiliation in the literature of contemporary North America.—K. Newman
Enrollment limited to 25.
 4 points. M 9:00-10:50

ANT V 3713y
Ties that Bind: Institutions and Communities in Contemporary America
 An examination of the forms of identity that create a sense of belonging and sustain the formation of national and subcultural identities in American society. Qualitative studies of communities formed by the workplace, residence, age, religion and voluntary association.
Enrollment limited to 25.
 4 points. Not offered in 1992-93.

ANT V 3718y
Colloquium: Gender, Development and Empowerment
 An exploratory exercise to seek a new paradigm in the study of gender. The process of negotiation in the social construction of gender and institutions that impinge on or promote that negotiation, as Third World populations seek empowerment within that point in their history referred to as “development.”
Enrollment limited to 12 students.
 4 points. Not offered in 1992-93.

ANT V 3720x
Colloquium: Marxism and Ethnography
 Examination of some basic sources of Marxist

social theory, their implications for anthropological theory and method, and selected ethnographies influenced by or relevant to them.
Enrollment limited to 20 students.
 3 points. Not offered in 1992-93.

ANT V 3750x
Quantitative Thinking in Anthropology
 Strategies for framing analytic questions in anthropology and finding answers with quantitative methods. Emphasis is on descriptive statistics, exploratory data analysis, and microcomputer methods.
 4 points. Not offered in 1992-93.

ANT V 3760y
Colloquium: Stratification, Inequality and Prejudice
 A comparative exploration of the relation, in complex societies, between economic specialization, social distancing, unequal opportunity, and ideologies of superiority/inferiority. The primary focus will be on “race” in Europe-derived societies and “caste” in India, but students will be expected to introduce other cases.
Prerequisite: ANT V 1002 or equivalent.
Enrollment limited to 25.
 4 points. Not offered in 1992-93.

ANT V 3830y
Male and Female: Monotheisms and Polytheisms Compared
 Examines basic definitions of male and female as established in dominant myths and ritual practices of Islam, Judaism, Christianity, Ancient Greece and Ancient Hawaii.
Limited to 12 advanced undergraduates.
 4 points. Not offered in 1992-93.

ANT BC 3868y
Ethnographic Field Research in New York City
 A Seminar-Workshop on field research in New York City. Exploration of anthropological field research methods followed by supervised individual field research on selected topics in urban settings.
Open to non-majors with permission of instructor.
 4 points. Not offered in 1992-93.

ANT V 3905x
Aztecs, Mayas, and the Mesoamerican Past
 Traces the cultural history of ancient civilizations in Mexico and Central America from their origins to the Spanish conquest. —O. de Montmollin
 3 points. Tu Th 1:10-2:25

ANT V 3910x
Peasant Societies and Their Transformation
 Anthropological and historical perspectives on the peasant societies of France and China. The

characteristics of the traditional peasant societies of both countries and their transformation in modern times. —M. Cohen / I. Woloch
3 points. Tu 11:00-12:50 S

ANT V 3920x
Economy and Society in Prehistory

An examination of the economic organization of prehistoric and ancient societies, from the earliest hunters and gatherers to the first empires. Topics include production, consumption, exchange, and decision-making in early societies, e.g., subsistence practices, market and non-market exchange, specialized production and monetary systems, and the relationship between economic organization and political development.

Introduction to Archaeology or permission of the instructor required. Enrollment limited to 15 students.
4 points. Not offered in 1992-93.

ANT V 3930x
Archaeological Perspective of Cultural Evolution

A critical examination of theories dealing with the evolution of complex societies in pre-history. Topics include the development of urbanism, hydraulic agriculture, militarism, population pressure, and the role of religious ideology in the transformation from egalitarian to state-level societies. —T. D'Altroy

4 points. W 9:00-10:50 S

ANT V 3940x
Current Controversies in Primate Behavior and Ecology

Critical in-depth evaluation of selected issues in primate social ecology, including adaptationism, sociality, sexual competition, communication, kinship, dominance, cognition, and politics. Emphasizes readings from original literature. —M. Cords
Enrollment limited. Prerequisite V1010, V3210 or permission of the instructor.

4 points. M W 11:00-12:15 S

ANT V 3942x
Colloquium: Anthropological Study of Ritual

The role of symbols in complex economic and political organizations in the commercial sector of London's financial district, among Hausa merchants in Nigeria, in Islamic revolutions in the Middle East.

4 points. Not offered in 1992-93.

ANT V 3948x
Rights and Rituals in Africa and the Diaspora: Pan-African Dilemmas

The focus is on the fabrication of African histories, myths and rituals viewed as the product of

social conditions, human agency and economic and political circumstances. Contrasting ethnocentricities, "knowledges," and meanings will be explored as interpretations and appropriations of human conditions. —G. Bond

3 points. W 2:10-4:00 S

ANT W 4114x
The Anthropology of Religious Belief

"Religion" approached as a dimension of "Culture" — in terms of classic and contemporary anthropological theory and ethnographic evidence. Values, cosmologies, belief systems, rituals and religious practitioners will be compared and contrasted, and the interplay of religion and societal change will be addressed. —M. Klass

3 points. M 9:00-10:50 plus hour to be arranged. S

ANT W 4150y
Ethnology of Native Americans

Patterns of aboriginal culture north of Mexico. Native American history and culture change since European contact. United States administration of Native American affairs and the Native American minority today.

3 points. Not offered in 1992-93. S

ANT W 4187y
Life in Rural South Asia

Examination of the circumstances under which one out of every six people on Earth currently live: the course explores varieties of South Asian communities, religions, and economic and social systems — with particular attention to the manifestations of caste and Hinduism on the village level.

3 points. Not offered in 1992-93. S

ANT V 4226y
Culture and the Plastic Arts

The relationship of the plastic arts to other aspects of culture; the manufacture and use of carvings and masks; the meanings of design elements; the position of the artist in society. Emphasis on Melanesia, North America and West Africa.

3 points. Not offered in 1992-93.

ANT W 4230x
Food and Society

Socio-cultural and symbolic aspects of food ways. Topics covered include: what, when and with whom people eat; how and by whom food is acquired, prepared and served; and what messages these activities convey. Particular attention will be paid to relations of gender, class and ethnicity.

3 points. Not offered in 1992-93. S

ANT W 4236x
Ecological Studies in Anthropology
 The use of ecological principles and data in analysis of non-Western societies and the interpretation of culture change. Analyses aimed at understanding adaptation of human societies to their environment.
 3 points. Not offered in 1992-93. S

ANT V 4258y
Ancient States in the New World
 The course uses archaeology and ethnohistory to document and make sense of the varieties of political structure found among the pre-Hispanic states in Meso-America and Andean South America. A primary aim is to understand how Amerindian concepts about statecraft and ruler-ship mesh with anthropological theories about ancient states. —O. DeMontmollin
 3 points. Tu Th 9:00-10:50 plus hours to be arranged.

ANT W 4346x
Laboratory Techniques in Archaeology
 Training in general archaeological methods. Data recording techniques, preparation of reports, illustrations, etc.
 3 points. Not offered in 1992-93.

ANT W 4350y
Cultural Resource Management
 Discussion of laws and regulations concerning the preservation of national archaeological resources and the procedures of cultural resource management. Contribution that public archaeology makes to research in the discipline.
 3 points. Not offered in 1992-93. S

ANT W 4354y
Archaeology of New York City
 The archaeology of Greater New York City and environs, from earliest Palaeo-Indian times to the early colonization of New York. Lectures illustrated from original research material, with visits to museums, and field trips to local archaeological sites. No previous coursework in archaeology necessary.
 3 points. Not offered in 1992-93.

ANT W 4625x
Anthropology and Film
 Use of film by anthropologists as a means of documentation of culturally patterned behavior and as a research tool. Films will also be analyzed as cultural texts.
 3 points. Not offered in 1992-93.

Anthropology-Asian Studies AAS V 3501y
Women in Japanese Society
 —K. Ikeda
 3 points. Tu Th 1:10-2:25 H

COURSES FOR MAJORS

ANT BC 3871x-3872y
Senior Seminar:
Problems in Anthropological Research
 Discussion of research methods and planning and writing of a Senior Essay will accompany research on problems of interest to students, culminating in the writing of individual Senior Essays. The advisory system requires periodic consultation and discussion between the student and her adviser as well as the meeting of specific deadlines set by the Department each semester.—Staff
 4 points. M 4:10-6:00

ANT BC 3999x, y
Individual Projects
 Research projects are planned in consultation with members of the department and work is supervised by the major's adviser.—Staff
Permission of the department required.
 4 points. Hours to be arranged.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the Department Chair and the major adviser. These courses are described in the Bulletin for the Graduate School of Arts and Sciences.

ARCHITECTURE

310 Barnard Hall

854-8430

Lecturer: Peggy Deamer (Acting Director)

Adjunct Assistant Professors: Liseanne Couture, Scott Marble, Patricia Morton, Suzanne Stephens

Other officers of the University offering courses listed below:

Adjunct Assistant Professors: Frederick Biehle, Karen Fairbanks (Columbia College Departmental Representative), Eugene Santomasso, Madeline Schwartzman, Andrew Tesoro, Carol Willis, Michael Webb:

Architecture majors experience and investigate the central aspects of the field. The major provides an inclusive program offering opportunities to explore historical and contemporary relationships among physical, social and cultural forms and environmental contexts. Active studio work complements seminar discussions, lectures and research; students are required to choose a "cluster" of courses in another area of particular interest, thus relating architecture to other disciplines.

Students considering an Architecture major or minor should consult with the adviser before sophomore registration to develop the most appropriate sequence of studio and lecture courses. Those interested in graduate study in architecture should consult with the adviser in their junior year concerning their programs.

REQUIREMENTS FOR THE MAJOR

The major in Architecture is required to complete 14 courses, at least five of which should be Barnard courses:

Four Studio courses, to be taken one per semester (studio courses have limited enrollment and priority is given to Architecture majors and upperclassmen):

ARC V 3103	<i>Architectural Representation: Perception</i>
ARC V V 3101	<i>Architectural Representation: Abstraction</i>
ARC V 3201, V 3202	<i>Architectural Design I and II</i>

Five Lecture courses from the following list*

ARC BC	3117	<i>Perceptions of Architecture</i>
ARC C	3301	<i>The Beginnings of Architecture</i>
ARC C	3302	<i>Architecture of the Western World</i>
ARH V	3080	<i>Pre-Columbian Art & Architecture</i>
ARH V	3203	<i>Arts of Japan</i>
ARH V	3248	<i>Greek Art and Architecture</i>
ARH V	3250	<i>Roman Art and Architecture</i>
ARC A	6730	<i>American Architecture before 1876</i>
ARC A	4341	<i>American Architecture 1876-1976</i>
ARH W	3645	<i>Twentieth-Century Architecture and City Planning</i>
ARH A	4358	<i>Renaissance Architecture and Urbanism</i>
ARC A	4330, 4331	<i>Urban History I and II</i>
ARC A	4480	<i>Elements of Landscape Architecture</i>

Two Seminars to be taken in the junior or senior year.*

ARC V	3901	<i>Senior Seminar</i>
ARC BC	3431	<i>Architectural Criticism in the Essay Form</i>
ARH C	3992	<i>Architecture Since 1945</i>
ARC BC	3443	<i>Principles of Japanese Architecture</i>
ARC C	3940	<i>Piranesi and Rome in the 18th Century</i>

*Each semester there are other applicable courses scheduled at the University that can be taken upon approval of the adviser. For the description of these courses consult the listings of other departments.

Three cluster courses are required, chosen in consultation with the adviser from an area of study related to architecture, such as Anthropology, Art History, Economics, Environmental Science, Geography, History, Philosophy, Physics, Political Science, Psychology, Sociology, Urban Studies, or Studio Art.

The Architecture program is a liberal arts major, not a professional degree program. It does not qualify students for a licensure in Architecture.

Students who wish to continue in graduate studies in Architecture for a professional degree are also advised to take:

ARC BC	3211	<i>Architectural Design III</i>
Physics V	1003	<i>General Physics</i>
Mathematics V	1100	<i>Brief Calculus</i>

Note: All studio, seminar, and upper-level courses require the permission of the instructor at the first meeting of the class.

REQUIREMENTS FOR THE MINOR

The minor in Architecture consists of five courses, including V 3103 or V 3101, and three history/theory courses to be chosen in consultation with the adviser.

COURSES OF INSTRUCTION

ARC BC 3117y

Perceptions of Architecture

Introduction to various methods by which we look at, experience, analyze, and criticize architecture and the built environment; development of fluency with architectural concepts.—K. Fairbanks
Designed for but not limited to sophomores; enrollment beyond 20 at the discretion of the instructor.
3 points. Tu Th 2:40-3:55

ARC C 3301x

The Beginnings of Architecture

Survey of the history of architecture from prehistoric times through the fall of Rome, including major examples of non-Western architecture.—E. Santomaso
Recommended in the first or sophomore year.
3 points. Tu Th 4:10-5:25

ARC C 3302y

Architecture in the Western World

Continuation of C 3301. Survey of European architecture from the fall of Rome to the beginnings of the Industrial Revolution.—E. Santomaso
Recommended in the first or sophomore year.
3 points. Tu Th 4:10-5:25

ARC V 3901x, y

Senior Seminar

Readings, individual class presentations, and written reports.—P. Deamer and C. Willis
Open to architecture majors only.
3 points.

x: W 4:10-6:00 —Instructor to be announced.

y: Sec. 1 Tu 2:10-4:00 —P. Deamer

Sec. 2 F 10:00-11:50 —C. Willis

ARC BC 3431x

Architectural Criticism in the Essay Form: Seminar

Investigation of three critical modes developed by architectural historians, journalists and architects in relation to architecture and urban design. Analysis of key texts written from the 1850s to the present. —S. Stephens
4 points. W 12:10-2:00

ARC BC 3443y

Principles of Japanese Architecture: Seminar

Investigations of traditional Japanese domestic and temple architecture and related arts, through study of the history, culture, building typologies, aesthetics/space concepts and formal analysis. Examples such as the Minka (peasant house), Ise Shrine, Katsura, will be studied. —P. Morton
4 points. Th 4:10-6:00

STUDIO COURSES

ARC V 3103x, y

Architectural Representation: Perception

Introduction to design through studies in perception and visualization, using drawings from nature and architecture. Emphasis on exploratory, inventive processes for the generation, development and representation of ideas in a variety of media. —M. Schwartzman and staff

ARCHITECTURE

Recommended in the sophomore year.

3 points. Sec. 1 Tu Th 9:00-10:50

Sec. 2 M W 1:00-2:50

ARC V 3101x, y

Architectural Representation: Abstraction

Introduction to design through analysis of abstract architectural space and form. Emphasis on the design process and principles of representation through architectural drawing and model-making. Students work in a studio environment. —S. Marble and staff

Recommended in the sophomore year.

3 points.

Sec. 1 Tu Th 9:00-10:50

Sec. 2 Tu Th 11:00-12:50

Sec. 3 Tu Th 7:00-8:50 (y only)

ARC V 3201x

Architectural Design I

Workshop introduction to architectural design: fundamental explorations of space and form through design exercises requiring drawings and models. Studio work, lectures, discussions and written analysis—Staff

Prerequisite: V 3103 and V 3101.

4 points. M W 9:00-11:50

ARC V 3202y

Architectural Design II

Workshop continuation of Course V 3201. Field trips and lectures organized in relationship to the studio exercises. —Staff

Prerequisite: V 3201.

4 points. M W 9:00-11:50

ARC BC 3211x

Architectural Design III

Further exploration of the design process through studio work. Programs of considerable functional, contextual, and conceptual complexity are undertaken. —S. Marble, L. Couture

Eligible students are requested to consult the program adviser for Barnard College before the first meeting of class. Prerequisites: V 3202 and permission of the program adviser.

4 points. Tu Th 9:00-11:50

ARC BC 3099x, y

Independent Study

Prerequisite: permission of program adviser for Barnard College, in semester prior to that of independent study.

Professors: Natalie B. Kampen (Women's Studies), Keith Moxey (Chair), Barbara Novak² (Helen Goodhart Altschul Professor), Jane Rosenthal

Assistant Professor: Sheila McTighe

Adjunct Professors: Maryan Ainsworth, Brian O'Doherty

Visiting Associate Professor: Ella Foshay

Associates: Joan Snitzer, Ann McCoy

Other officers of the University offering courses listed below:

Professors: James Beck¹, Richard Brilliant, Joseph Connors², Jonathan Crary¹, Alfred Frazer³, David Freedberg³, Rosalind Krauss, Robin Middleton, Miyeko Murase², Stephen Murray³, Esther Pasztory², Theodore Reff³, David Rosand, Allen Staley¹

Associate Professors: Suzanne Blier, Vidya Dehejia

Assistant Professors: Hilary Ballon, Barry Bergdoll, Thomas Dale, Johanna Drucker¹, Alexander MacGillivray, John Russell, David Sensabaugh³, Janis Tomlinson

¹Absent on leave 1992-93

²Absent on leave Autumn Term

³Absent on leave Spring Term

Art History, which is devoted to the study of the visual arts, is one of the broadest of the humanistic disciplines. It is concerned not only with the nature of works of art—their form, style, and content, but also with the social, political, and cultural circumstances that shape them. The introductory level courses aim at developing in students a lifelong understanding and appreciation of works of art. The rest of the curriculum is geared to preparing majors either for graduate study leading to careers in university teaching and museums, or for positions in the art world, in galleries, publication, criticism, the visual media, art consultation, conservation, and the like. These courses also provide opportunities for correlated learning to students in other fields. The department, fortunate in being located in New York City, one of the world's great art centers, takes full advantage of the rich resources of the city's museums and galleries in its course of study.

REQUIREMENTS FOR THE MAJOR

The Department offers both a major in the History of Art and a major in Art History with a concentration in the Visual Arts. In each case the student chooses a faculty adviser who assists her in planning a program incorporating personal interests while meeting departmental requirements.

Requirements for the major in the History of Art: Nine Art History courses including at least one each in ancient, medieval, Renaissance, baroque and modern art, and two seminars. Both seminars may be taken in one of the required periods. Art History BC 1001, 1002, Introduction to the History of Art, is strongly suggested as an introduction to the field unless a student has sufficient previous training. It is also recommended as a prerequisite to all upper level courses. Each semester of BC 1001, 1002, counts as an elective toward fulfillment of the nine-course requirement but neither this, nor any other broad survey, can be substituted for a course in one of the five major areas. Of the nine courses required, four lecture courses and one seminar should be taken at Barnard. Majors concentrating in Asian art and who will write their senior essay in that field may substitute a course in Chinese or Japanese art for one of the five area requirements in Western art. Courses in film are accepted as part of the major; studio courses are not.

ART HISTORY

A senior essay is required of the major. With the chair's permission, seniors may elect Art History BC 3999 *Independent Research*, for the senior essay but the course may not be used to fulfill the seminar requirements. The senior essay may be an expansion of a seminar paper.

Students who plan to undertake graduate work should acquire a reading knowledge of at least two foreign languages in which the major contributions to the history of art have been made. Most graduate schools require a reading knowledge of French and German; the department strongly recommends taking German while at Barnard.

Requirements for the major in Art History with concentration in the Visual Arts:

Seven Art History courses including:

- BC 1001, 1002 *Introduction to the History of Art*
- An advanced seminar in art history
- One course in 19th or 20th century art
- ARS BC 3031 *Imagery and Form in the Arts*.
- In addition, students must take a minimum of five studio art courses.

A senior project is required. This may take the form of a critical essay dealing with contemporary art or an exhibition of the student's work with an accompanying paper defining the artistic character of the work.

REQUIREMENTS FOR THE MINOR

The minor in Art History consists of five lecture courses, including Art History BC 1001, BC 1002, and one each in three of the following periods: ancient, medieval, Renaissance, baroque, and modern.

COURSES OF INSTRUCTION

ARH BC 1001x, 1002y

Introduction to the History of Art

An introduction to the art of the past with an emphasis on the variety of perspectives from which it may be studied. While mainly restricted to the art of Western Europe, the course will attempt to include reference to other cultures where possible. There will be no attempt at coverage. Works of art from different periods will be selected for discussion in depth. All members of Barnard's art history faculty will contribute lectures in their fields of specialization. Autumn Term: Ancient, Medieval and Renaissance. Spring Term: Baroque, Modern and Contemporary. —K. Moxey, other instructors to be announced.

4 points. M W 1:10-2:25 plus hour to be arranged. H

ARH V 3030x

Arts of Africa

A survey of tribal art styles of Africa, Oceania, and America with emphasis on function, iconography, and historical relationships. —S. Blier

3 points. Tu Th 10:35-11:50 H

ARH V 3080y

Pre-Columbian Art and Architecture

Survey of pre-Hispanic art of Mesoamérica, Central America, and the Andean region from the earliest times to the Spanish conquest. —E. Pasztory

3 points. Tu Th 2:40-3:55 H

ARH W 4130y

The Indian Temple

An introduction to the Indian Temple that focuses on the architecture and sculpture of major temple sites, highlighting the distinctive styles of north and south India. Hindu temples in Cambodia and Java are also considered. —V. Dehejia

3 points. Not offered in 1992-93 H

ARH W 3180x

Art and Architecture of Ancient Egypt

The principal monuments of Egyptian culture, from the beginnings of civilization in the 4th millennium B.C. to the conquest of Alexander the Great. —J. Russell

3 points. Tu Th 4:10-5:25 H

ARH W 4125y**Buddhist Art**

Commencing with the stupas and cave-monasteries of the century before Christ, the introduction of the image of the Buddha is considered, and the further development of Buddhist art in India is examined. Extensions of this art into Sri Lanka, Nepal, Tibet, Afghanistan, Burma, and Indonesia are also considered. —V. Dehejia
3 points. Tu Th 4:10-5:25

H

ARH V 3201x**Arts of China**

Survey of Chinese art from Neolithic to the last dynastic period of Ch'ing, with emphasis on bronzes, Buddhist art, and great landscape painting of the Sung and later periods; arts of Central Asia and India as they affect the arts of China. —D. Sensabaugh
3 points. Tu Th 4:10-5:25

H

ARH V 3203y**Arts of Japan**

Survey of the development of Buddhist art and architecture in Japan as they were introduced from China, including the arts of later periods with emphasis on the formation of indigenous art forms such as narrative scroll-painting, decorative screens, and woodblock prints. —M. Murase
3 points. Tu Th 4:10-5:25

H

ARH V 3248x**Greek Art and Architecture**

Examination of the principal monuments and themes of Greek art in sculpture, painting, architecture, and city planning from the Mycenaeans to the Roman conquest. —R. Brilliant
3 points. Tu Th 2:40-3:55

H

ARH V 3250y**Roman Art and Architecture**

Architecture, sculpture, and painting of ancient Rome from the second century B.C. to the end of the Roman Empire in the West. —N. Kampen
3 points. Tu Th 2:40-3:55

H

ARH W 4455x**Byzantine Art from Justinian to the Palaeologan Renaissance**

Focus will be on major patrons and themes in the art of the Byzantine (East Roman) empire from the 6th to the 14th century. —T. Dale
3 points. Not offered in 1992-93.

H

ARH BC 3351x**Early Christian and Early Medieval Art**

The origins of Christian art before Constantine and the subsequent development of architecture,

sculpture and painting under the patronage of church and state in Western Europe from the 4th through the 11th century. —J. Rosenthal
3 points. M W 2:40-3:55

H

ARH W 4315y**The Making of Medieval Art, 650-900 AD**

The development of medieval art in the Germanic kingdoms of western Europe from the mid-7th century to the end of the Carolingian Empire. —J. Rosenthal
3 points. Not offered in 1992-93.

H

ARH BC 3352y**Art of the Later Middle Ages**

Between the 11th and 14th centuries the political, economic and cultural life of Europe underwent profound change. This course provides an exploration of the Medieval visual arts within this dynamic framework. —S. Murray
3 points. M W 2:40-3:55

H

ARH W 4313y**English Romanesque Art**

Romanesque art in England with emphasis on painting, sculpture, and the luxury arts. —J. Rosenthal
3 points. Not offered in 1992-93.

H

ARH W 4356y**Gothic Painting in France, 1200-1350**

Origins and development of French Gothic painting from the Ingeborg Psalter through the works of Pucelle and his circle. —J. Rosenthal
3 points. M W 4:10-5:25

H

ARH W 3420x**Italian Sculpture during the Renaissance**

Survey of developments from the 13th to the 16th century with special emphasis given to the art of Nicola Pisano, Giovanni Pisano, Quercia, Donatello, and Michelangelo. —J. Beck
3 points. M W 5:40-6:55

H

ARC W 3400x**Italian Renaissance Painting I**

The origins and development of Renaissance painting: humanism and religion, perspective and art theory, the revival of classical form and content. Emphasis on major centers, especially Florence and Venice and the courts, and on the major masters: Masaccio, Fra Angelico, Piero della Francesca, Giovanni Bellini, Leonardo da Vinci. —J. Beck
3 points. Not offered in 1992-93.

H

ARH V 3437y

Italian Renaissance Painting II

The style and significance of painting in Italy, with discussion of the concepts of High Renaissance and Mannerism. Emphasis on major figures in Rome, Florence and Venice. —J. Beck
3 points. Not offered in 1992-93. H

ARH V 3475y

Art and Culture of the Northern Renaissance

Naturalism in the art of Campin, van Eyck, van der Weyden, van der Goes and others interpreted as the production of different types of "reality effect" rather than as a progression towards ever greater illusionism. An analysis of social meaning and the ideological transactions they enabled in terms of class and gender. A survey of early printmaking, woodcuts and engravings, with attention to the way in which "popular imagery" served to articulate and support the social hierarchy. —K. Moxey
3 points. Tu Th 10:35-11:50 H

ARH W 4547y

French Painting and the Birth of Art Criticism in the Ancien Régime, 1640s-1780s

Explores crucial moments in the creation of two institutions governing 17th- and 18th-century artistic life: The Academic Royale, and a public criticism of the arts independent of both artist and patron. Artists studied include Le Brun, Jouvenet, Watteau, Chardin and Greuze. Critical texts include de Piles, Du Bos, and Diderot. —S. McTighe
Prerequisites: BC 1001-1002 and one other upper level course or permission of the instructor.
4 points. Tu Th 5:40-6:55 H

ARH W 4480x

Art in the Age of the Reformation

This course will trace the ways in which the cultural and social functions of artistic production in Germany and the Netherlands were transformed as a consequence of the dissemination of the ideologies of humanism and the Reformation. —K. Moxey
3 points. Not offered in 1992-93. H

ARH V 3500y

Seventeenth-Century Art in Italy, France, and Spain

Painting and sculpture in Western Europe, 1580-1660. The Baroque style in relation to its cultural background, with emphasis on Caravaggio, Bernini, Borromini, Poussin, Claude, Velazquez. —H. Ballon
3 points. M W 10:35-11:50 H

ARH BC 3520y

Roman Baroque Art

A survey of painting, sculpture and architecture in 17th-century Rome, when the city was at its peak of artistic production. Artists studied include Caravaggio, Bernini, Poussin, and Salvator Rosa. —S. McTighe
3 points. Not offered in 1992-93. H

ARH BC 3521y

Seventeenth-Century Painting and Public Life in the Lowlands, 1580-1700

Survey of the visual arts in Holland and Flanders during the 17th century, with an emphasis on the role of the arts in public life. Artists studied include Rubens, Rembrandt, Vermeer, Frans Hals and Jan Steen. —S. McTighe
3 points. Not offered in 1992-93. H

ARH W 4624x

American Painting, 1760-1900

An investigation of the ways in which cultural context, including American self-definitions and the land itself, shaped an ideology of the natural world in American art, with correspondences in philosophy, science and literature from its source in the Puritan ethic through Transcendentalism and into the Post-Darwinian period. —E. Foshay
3 points. Tu Th 2:40-3:55 H

ARH V 3748x

Eighteenth-Century Art

From Watteau and Tiepolo to David and Goya. Emphasis on new styles and subjects appearing between 1750 and 1800 and their relation to the contemporary and social background. —A. Staley
3 points. Not offered in 1992-93. H

ARH W 3600x

Nineteenth-Century Art

Painting and sculpture in Western Europe from 1789-1900; Neoclassic, Romantic, Realist, Impressionist, and Post-Impressionist movements. —A. Staley
3 points. M W 4:10-5:25 H

ARH W 3650y

Twentieth-Century Art

Major developments in 20th-century painting, sculpture and architecture with emphasis on modernist and avant-garde practices and their relevance for art up to the present. —R. Krauss
3 points. Tu Th 10:35-11:50 H

ARH V 3670y

Modernism in America

Survey of activities in the visual arts in America between 1900 and 1940 including the work of

artists and emerging institutions. —J. Drucker
3 points. *Not offered in 1992-93.* H

ARH W 4840x
Art Since 1945

A comprehensive survey of major trends in the visual arts since 1945 (Abstract Expressionism through Postmodernism) with an emphasis on American and European artists and movements. —J. Drucker
3 points. *Not offered in 1992-93.* H

ARH W 3645x
Twentieth-Century Architecture and City Planning

Major movements, figures and theoretical positions in Europe and American architecture since 1890 in Europe and America. Attention to the influential urban proposals of Wright, Le Corbusier, Hilbesheimer, CIAM, Archigram, the Metabolists, and Venturi & Scott Brown.—B. Bergdoll
3 points. *Not offered in 1992-93.* H

ARH W 4667x
Arts in Italy since 1945

Introduction to Italy's most significant artists in areas of painting, sculpture, cinema and design from 1945 to present times. Seen against the background of early 20th-century art, in light of the recurring concepts of abstraction (structure/texture) vs. figuration (symbol/sign) with emphasis on theoretical discourses in contemporary philosophy, science and literature in its social context.—J. Beck
3 points. *Not offered in 1992-93.* H

ARH W 3883x
Architecture 1750-1890

Major currents in European and American architecture and city planning, 1750 to 1890. Attention to major theoretical statements, sociopolitical content, and the evolution of the architectural profession.—B. Bergdoll
3 points. *M W 1:10-2:25.* H

AWS BC 3123y
Women and Art

Discussion of the methods necessary to analyze visual images of women in their historical, racial and class context and to understand the status of women as producers, patrons and audiences of art and architecture. —N. Kampen
3 points. *Tu Th 10:35-11:50.* H

SEMINARS

Seminars have limited enrollment. Permission of the instructor is required for admission to all Barnard and Columbia seminars. In addition, it is

strongly recommended that students seeking admission to a seminar have previously had a lecture course in the area. Students must sign up for Columbia seminars at 826 Schermerhorn.

ARH C 3913y
Art in Periclean Athens

Attic Greek art as an expression of the religious and cultural values of the Athenian state between the Persian Wars and the end of the 5th century B.C. —R. Brilliant
4 points. *Not offered in 1992-93.* H

ARH C 3915y
Art and Politics in Augustan Rome

The Augustan state as a work of art and artifice: an exploration of major themes central to the artistic/political program of Augustus. —A. Frazer
4 points. *Not offered in 1992-93.* H

ARH C 3933y
Medieval Art at the Cloisters

Most meetings at the Cloisters. Consult departmental office for location of first meeting. —T. Dale
4 points. *F 2:10-4:00* H

ARH BC 3953y
The Art of Medieval Manuscript Illumination

Study of the decoration and illustration of Medieval manuscripts, including examination of original works in collections in New York City. —J. Rosenthal
4 points. *Tu 5:10-7:00* H

ARH C 3973x
Michelangelo

—D. Rosand
4 points. *Not offered in 1992-93.* H

ARH BC 3979x
Pieter Bruegel

A study of Bruegel's art as a site for the creation of social meaning rather than as the product of autonomous artistic creation. An examination of the ways in which his works functioned as cultural representations of the values of the social classes for which they were produced. —K. Moxey
4 points. *Not offered in 1992-93.* H

ARH BC 3963x
Caravaggio and Caravaggism in 17th-Century Painting

Focus on the strange and violent realism of Caravaggio's images, which revolutionized European painting around the turn of the 17th century. In addition to Caravaggio, we will look at the works of some of his followers, such as Artemisia Gentileschi, Jusepe Ribera, Georges de

la Tour and the Le Nains brothers. —S. McTighe
Prerequisite: Upper-level course in art history; designed for majors.
 4 points. M 2:10-4:00 H

ARH BC 3964y
Poussin and Claude:
Landscape in 17th-Century Rome
 Focus on the 17th-century ideal landscape as an artistic and a social phenomenon. Topics considered: perspective and color theory; problems in narrative and allegory in landscape; audiences for the ideal landscape. —S. McTighe
Preference to Art History majors or permission of the instructor.
 4 points. W 2:10-4:00 H

ARH C 3972x
Velazquez and Painting at the Court of Philip IV (1621-1665)
 An examination of the oeuvre of Diego Velazquez within the context of painting at the court of Philip IV. An exhibition of works by Velazquez from the Prado Museum to be shown at the Metropolitan Museum of Art will provide a focus for student research. —J. Tomlinson
Prerequisite: Art History W 3603 or permission of the instructor.
 4 points. Not offered in 1992-93. H

AHS V 3905y
Crosscurrents in the Art and Literature of Spain 1550-1800
 An examination of the relationship of themes in Spanish art and literature in their social and historical context from the reign of Philip II to the demise of the *ancien régime*. Methods of comparative analysis of literature and the visual arts will be considered. Readings include St. Teresa, Lope de Vega, Tirso de Molina, Cervantes, María de Zayas, Calderón de la Barca. —J. Tomlinson, M. Welles
For Art History majors, no language requirement. For Spanish majors, completion of the language requirement; readings to be completed in the original.
 3 points. W 4:10-6:00 H

ARH C 3948x
Nineteenth-Century Criticism
 Selected readings in philosophy and criticism of art with special emphasis on the problems of the observer in the context of 19th-century modernity. Texts by Diderot, Kant, Blake, Goethe, Hegel, Ruskin, Baudelaire, and Nietzsche. —J. Crary
 4 points. M 10:10-12:00 H

ARH C 3949x
Colloquium: Cubism
 The development of Cubism from 1907 to 1914 and its relation to the major historical and intellectual events of the time. Discussion of various critical approaches from the first Cubist exhibition to the present. —T. Reff
Prerequisite: at least one course in modern art.
 4 points. Not offered in 1992-93. H

ARH V 3951y
The Image of the Buddha, from New York Collections
 A study of the evolution of the Buddha image in the art of India and southwest Asia. Introductory lectures discuss the early aniconic tradition and the controversy over the introduction of the image of the Buddha, setting the scene for an examination of the Buddha image. Further sessions are devoted to examining images of differing periods, in a variety of mediums, from a range of geographical and cultural areas. —V. Dehejia
 4 points. Not offered in 1992-93. H

ARH BC 3982y
The Literature of Art
 Study of literary sources used in art historical research: artists' letters, journals and treatises (by Leonardo, Reynolds, Delacroix, Van Gogh, up to the present), contemporary biographies (Vasari), ideas and writings of leading critics and scholars (Foucault, Barthes, Huizinga, Wofflin, Worringer, Berenson; Fry, Panofsky, Gombrich, Malraux, Kubler). —B. Novak
Enrollment limited to 16 students. Permission of the instructor required.
 4 points. W 2:10-4:00 H

ARH BC 3985x
Introduction to Connoisseurship
 Factors involved in judging works of art, with emphasis on paintings: materials, technique, condition, attribution; identification of imitations and fakes; questions of relative quality. —M. Ainsworth
Enrollment limited to 12 senior majors. Permission of the instructor required.
 4 points. F 10:00-12:00 H

ARH BC 3986y
Art Criticism
 Workshop in writing criticism. Short weekly assignments on such matters as language, experience, narrative and the object; close examination of process. Students write art criticism based on their gallery visits and refer to current and previous criticism. —B. O'Doherty
Enrollment limited to 15 students.
 4 points. Not offered in 1992-93.

ARH C 3968x**Still-Life Painting, 1850-1900**

Emphasis will be on Manet, Cézanne, Gauguin and Van Gogh. —T. Reff
4 points. Not offered in 1992-93.

ARH BC 3999x, y**Independent Research**

Independent research, primarily for the senior essay, under a chosen faculty adviser and with the chair's permission. —Staff
4 points. Hours to be arranged. H

ARS BC 3031x**Imagery and Form in the Arts**

The operation of imagery and form in dance, music, theatre, visual arts and writing; students are expected to do original work in one of these arts. Concepts in modernist theory will be explored. —J. Snitzer
3 points. M 2:10-4:00

M 6:00-7:00. Artsforum

Artsforum is an informal weekly meeting with professionals in the arts.

STUDIO COURSES IN ART

Studio courses, 2003x, 2004y, 2005x, 2006y, 2007x, 2008y, are given at Barnard. Enrollment is limited and students must sign up. Other studio courses are given at the School of the Arts, in Dodge Hall, and students may register for these only with written permission of the department chairman. Classes are limited in size. Students who wish to enter the Columbia courses are required to apply for space in 305 Dodge Hall during the preregistration period prior to each term. Model fees range from \$20.00 to \$45.00. For students other than those majoring in Art History with Visual Arts concentration, a maximum of four courses of studio work may be credited towards graduation; each of the second two must be matched with an art history course to be credited.

ARH BC 2003x, 2004y**Drawing in the Museum**

An intensive drawing workshop geared to all levels from beginners to advanced. Includes live drawing, color theory and work in pastel. Drawing in the Museum will also examine the role played by the display of art and artifacts from all periods of history in the work of the cubists and surrealists as well as in that of such contemporary artists as Robert Smithson, Joseph Beuys, Marcel Broodthaers, Nancy Spero, Leon Golub and others. —A. McCoy
2 points. Th 2:10-6:00

ARH BC 2005x, 2006y, 2007x, 2008y
Painting

Basic understanding of the visual representation of space, color, and form are developed by setting specific tasks to be executed in oil painting. Class work will include drawing and painting from the model as well as still life arrangements. Emphasis is on the painting methods and techniques used historically in Realism, Expressionism, and Abstraction. Students are encouraged to develop oral and written skills through weekly discussions and assignments that accompany the examination of visual art. No prior experience is necessary. —J. Snitzer
2 points. W 2:10-6:00

ARH BC 2010x**Advanced Studio Painting**

A study of the theoretical and critical issues in painting since 1945. Projects are modeled on those of major figures in American art whose innovations in style or technique led to new forms. Each student will develop an original body of artwork and participate in group critiques.
—J. Snitzer

Permission of the instructor required.

3 points. Tu 2:10-6:00 plus required hour per week for lecture.

STUDY ABROAD: REID HALL, PARIS

The following courses are offered at Reid Hall in Paris. For additional information, see the Reid Hall Programs Bulletin available in 412 Lewisohn Hall.

Art History H 3320x, y**Medieval Art and Architecture**

For students in the Humanities and Social Sciences Program Lectures and discussions on French art and architecture during the Middle Ages. Students are expected to visit and report on Saint-Denis, Cluny, Notre Dame, Chartres, Sainte-Chapelle, and other sites. —Y. Carré
3 points. H

Art History H 3350x**Romanesque and Gothic Art in France**
[in English]

French medieval art from the formation of Romanesque art to the late Gothic period at the end of the 14th century. Aspects of Carolingian and Ottonian art will be discussed with special emphasis on French Romanesque and Gothic art. Visits to museums and sites where original monuments can be seen and studied. —C. Minott

ART HISTORY

Prerequisite: at least one introductory course in art history.
3 points.

Art History H 3430x, y
Renaissance and 17th-Century Art and Architecture

Lectures and discussions on French architecture, painting, and sculpture from their roots in the Italian Renaissance through the 17th century. Students are expected to visit and report on the Musée Conde, Fontainebleau, Château d'Ecouen Vaux-le-Vicomte, Versailles, and the Louvre, and other sites. —C. Sala
3 points.

Art History H 3604x, y
Seminar on Contemporary French Art

Emphasis on one particular work, artist, or school.—J. Ferrier
4 points.

H

Art History H 3705x, y
Contemporary Art in Paris

Analysis of contemporary works of art as a reflection of the history of art in the last decades of the 20th century. Works of Anne and Patrick Poirier, Niki de St. Phalles, Tinguely, Takis, Christian Boltanski, Annette Messenger, among others. Visits to galleries and studios.—R. Huhn
3 points.

H

Art History H 3955x
International Gothic Art [in English]

Study of late 14th and early 15th-century arts in Europe, a prosperous if tumultuous period; includes part played in development of this art by France, its related duchies, Italy, Bohemia, Germany and the Low Countries. Use of French collections, particularly in Paris, as special resources. —C. Minott

Prerequisite: at least one introductory course in art history. Corequisite: H 3350x.
4 points.

H

H

H

ASIAN AND MIDDLE EASTERN CULTURES

321 Milbank Hall

854-5416, 2125

Professor: Barbara Stoler Miller (Samuel R. Milbank Professor and Chair)

Associate Professors: Irene Bloom, Afsaneh Najmabadi (Women's Studies)

Assistant Professor: Keiko Ikeda

Other officers of the University offering courses listed below:

John Mitchell Mason Professor Emeritus and Special Service Professor: William Theodore de Bary

Professors: Paul Anderer, Peter J. Awn (Religion), Richard Bulliet (History), Kathleen R. F. Burrill, Chou Wen-chung (Music), Myron Cohen (Anthropology), Dieter Christensen (Music), Ainslie T. Embree (Senior Scholars Program), Nina Garsöian, Carol N. Gluck (History), John S. Hawley (Religion), Robert Hymes, Donald Keene, Gari K. Ledyard, Maan Madina, John Meskill (Senior Scholars Program), Dan Miron, Miyeko Murase (Art History and Archaeology), Theodore Riccardi, Barbara Ruch, George Saliba, Henry Smith, Robert A. F. Thurman (Religion), Arthur Tiedemann, H. Paul Varley, Philip B. Yampolsky, Ehsan Yarshater, Madeleine Zelin

Adjunct Professor: Morris Rossabi

Associate Professors: Kamal Abu Deeb, Vidya Dehejia (Art History and Archaeology), Frances Pritchett, Haruo Shirane, Mark Van De Mierop, David Wang

Assistant Professors: Ryuichi Abe (Religion), Hamid Dabashi, Nili Gold, Ayesha Jalal (History), Matthew Kapstein (Religion), Richard Lufrano (History), Gurinder Singh Mann (Religion), Peter Manuel (Music), Paul Rouzer, David Sensabaugh (Art History and Archaeology), Michael Tsin, Gauri Viswanathan (English and Comparative Literature), Angela Zito (Religion).

Senior Lecturer: Jeanette Wakin

Lecturers: Eric Huberman (Mellon Teaching Fellow), David Lelyveld

The primary aim of Asian and Middle Eastern Cultures is to introduce major Asian civilizations, their works and values, as a means of expanding knowledge of the varieties and unities of human experience. The General Courses below are designed for any student, whatever her major interests, who wishes to include knowledge of Asian life in her education.

The satisfactory completion of one of the following courses offered in the departments of East Asian Languages and Cultures and Middle East Languages and Cultures satisfies the college requirements in the respective languages: Akkadian G 4204, *Intermediate Akkadian*; Arabic W 1122, *Intermediate Arabic*; Armenian W 1124, *Intermediate Armenian*; Central Asian W 1110, *Intermediate Tajik*; Central Asian W 1122, *Intermediate Uzbek*; Chinese C 1202 or F 1202, *Intermediate Chinese* (second stage); Hebrew W 1122, *Intermediate Modern Hebrew*; Hindi-Urdu W 1122, *Intermediate Hindi-Urdu*; Japanese C 1202 or F 1202, *Intermediate Japanese* (second stage); Iranian W 1122, *Intermediate Modern Persian*; Korean W 1202, *Intermediate Korean*; Nepali W 1122, *Intermediate Nepali*; Sanskrit G 6102, *Intermediate Sanskrit*; or Turkish W 1122, *Intermediate Turkish*.

Literature courses in the departments of East Asian Languages and Cultures, and Middle East Languages and Cultures in which readings are in the original languages may be used to fulfill the Barnard distribution requirements only with the permission of the Chair of Asian and Middle Eastern Cultures.

Students who wish to enter Chinese, Japanese or Korean language courses above the introductory level *must* pass a language placement test before registering. Placement exams are given during a week *before* classes begin—contact the Department of East Asian Languages and Cultures (407 Kent) for exact dates. For placement above the introductory level in Arabic, Hebrew, Hindi, Persian, Sanskrit, Turkish, or Urdu, contact the Department of Middle East Languages and Cultures (602 Kent). All students wishing to enter the Hebrew language program or wishing exemption from the Hebrew language requirement must take a placement test. The test is administered *Monday-Friday, 10:00-3:00 during August* in 602 Kent Hall.

ASIAN AND MIDDLE EASTERN CULTURES

REQUIREMENTS FOR THE MAJOR

A student who plans to major in Asian and Middle Eastern Cultures is advised to consult a member of the department in the spring term of her first year.

To major in Asian and Middle Eastern Cultures, a student will choose to follow one of two tracks, East Asian or Middle East.

The East Asian Track

A minimum of 14 courses is required, including:

Asian Humanities	V 3400	<i>Colloquium on Major Texts</i>
------------------	--------	----------------------------------

Two of the following courses:

Asian Civilizations-Middle East	V 3001	<i>Introduction to Major Topics in Asian Civilizations: The Middle East and India</i>
Asian Civilizations-East Asia	V 3002	<i>Introduction to Major Topics in Asian Civilizations: East Asia</i>
Asian Civilizations	V 3359	<i>Introduction to the Civilization of China</i>
Asian Civilizations	V 3361	<i>Introduction to the Civilization of Japan</i>
Asian Civilizations	V 3363	<i>Introduction to the Civilization of Korea</i>

Six courses of an appropriate language, selected in consultation with an adviser, four courses on East Asia chosen from among those listed below, or with the adviser's permission, from the listings of other departments (Asian Humanities V 3399, *Colloquium*, may be taken in satisfaction of this requirement); a methodology course which may include either East Asian W 4101, *Critical Approaches to Chinese and Japanese Literature*, or East Asian W 4103, *Historiography of East Asia* or another appropriate course to be chosen in consultation with the adviser; and one of the following seminars: East Asian W 3901x-3902y, *Senior Seminar: China*; East Asian W 3904y, *Senior Seminar: Japan*; or with the adviser's approval, Asian Studies BC 3999, *Independent Study*.

The Middle East Track

A minimum of 12 courses is required, including:

Asian Humanities	V 3399	<i>Colloquium on Major Texts</i>
------------------	--------	----------------------------------

Two of the following courses:

Asian Civilizations-Middle East	V 3001x	<i>Introduction to Major Topics in Asian Civilizations: The Middle East and India</i>
Asian Civilizations-Middle East	V 3003	<i>Introduction to Islamic Civilization</i>
Asian Civilizations-Middle East	V 4210	<i>Indian Civilization</i>

Four to six courses of an appropriate language (Akkadian, Arabic, Armenian, Hebrew, Hindi-Urdu, Persian, Sanskrit, Turkish, or Uzbek), selected in consultation with an adviser. A minimum of 6 courses chosen as a concentration. The concentration may be in the languages and cultures of ancient Semitic, Arabic, Armenian, Central Asian, Hebrew, Indic, Iranian, or Turkish. The courses required in each of the concentrations and other details will be explained by the department chair. They will include one advanced course or independent study leading to a senior thesis, to be written under the supervision of an appropriate faculty member, chosen in consultation with the adviser.

The courses listed under Middle East below represent a selection among those required in one or another of the concentrations. Students should consult the Middle East department office in 609 Kent Hall for a complete list of course offerings. Also see the note on Graduate Courses at the end of this section.

No minor is offered in Asian and Middle Eastern Cultures.

COURSES OF INSTRUCTION

COURSES IN ASIAN CIVILIZATIONS

Asian Civilizations-Middle East AME V 3001x
Introduction to Major Topics in Asian Civilization: The Middle East and India

Interdisciplinary and topical approach to major issues and phases of Asian civilizations and their role in the contemporary world. —H. Dabashi and G. Visnawathan

4 points. M W 10:35-11:50 plus an additional hour to be arranged. S

Asian Civilizations-East Asian AEA V 3002x or y
Introduction to Major Topics in Asian Civilization: East Asia

An interdisciplinary and topical approach to major issues and phases of East Asian civilizations and their role in the contemporary world. —x: W.T. de Bary, S. Linton, A. Tiedemann, and staff; y: J. Meskill, S. Linton, A. Tiedemann, and staff

4 points. Tu Th 10:20-11:50 S

Asian Civilizations-Middle East AME V 3003y
Introduction to Islamic Civilization

Islamic civilization and its characteristic political, social and religious institutions and intellectual traditions from its pre-Islamic Arabian setting to the present. —J. Wakin

3 points. M W 2:40-3:55 S

Asian Civilizations-Middle East AME V 4210x
Indian Civilization

—T. Riccardi

3 points. Not offered in 1992-93. S

Asian Civilizations-Middle East AME V 3359x or y
Introduction to East Asian Civilizations: China

Evolution of Chinese civilization from ancient times to the 20th century, characteristic institutions and traditions.

3 points. x: M W 2:40-3:55 —M. Tsin
y: M W 2:40-3:55 —I. Bloom S

Asian Civilizations-East Asian AEA V 3361y:
Introduction to East Asian Civilizations: Japan

Development of Japanese society and culture; national self-image and values as revealed in thought, institutions, literature and the national arts.

3 points. x: M W 2:40-3:55 —H. P. Varley
y: M W 11:00-11:50—H. Smith S

Asian Civilizations-East Asian AEA V 3363y
Introduction to Asian Civilizations: Korea

The evolution of Korean society and culture, with special attention to Korean values as reflected in

thought, literature and the arts. —G. Ledyard
3 points. Tu Th 2:40-3:55

Asian Civilizations ASC V 3365y
Human Rights and Social Justice in Comparative Perspective

The seminar considers issues of human rights through cross-national and cross-cultural studies of modern South Asia (India, Pakistan, Sri Lanka) and China. —A. Embree and M. Wagner
4 points. M 4:10-6:00

Asian Studies ASN V 3379y
Readings in Asian Studies

Topic for 1993: The Japanese family. —K. Ikeda
3 points. Tu Th 4:10-5:25

Asian Studies ASN V3500x
Self and Lifecourse in Japan

An examination of human lifecourse, from birth to death, within the cultural context of contemporary Japan. Topics include Japan's heritage of ideas about human nature and the growth of the self, rhythms of growth imposed by biological maturation and by the institutions of mass society, aging and death, and pathways to self-realization. —K. Ikeda
3 points. Tu Th 1:10-2:25

COURSES IN ASIAN HUMANITIES

Asian Humanities AHU V 3399x, V 3400y
Colloquium on Major Texts

Readings in translation and discussion of texts of Middle Eastern, Indian, Chinese, and Japanese origin, including (V 3399): the *Quran*, Islamic philosophy, Sufi poetry, the Upanishads, Buddhist sutras, the *Bhagavad Gita*, Indian epics and drama, Gandhi's *Autobiography*; (V 3400): the *Analects of Confucius*, Mencius, Lao Tzu, Chuang Tzu, the *Lotus Sutra*, *Dream of the Red Chamber*, *Tale of Genji*, Zen literature, Noh plays, Chinese and Japanese poetry. —P. Anderer, I. Bloom, W.T. deBary, E. Huberman, G.S. Mann, B. Miller, H. Shirane, E. Yarshater and Staff

4 points H

3399x:

Sec. 1 M 4:10-6:00

Sec. 2 W 4:10-6:00

Sec. 3 Th 4:10-6:00

3400

x: Sec. 1 M 4:10-6:00

Sec. 2 W 4:10-6:00

y: Sec. 1 M 4:10-6:00

Sec. 2 Tu 4:10-6:00

ASIAN AND MIDDLE EASTERN CULTURES

Asian Humanities-Middle East AME V 3031y Islamic Literature in Translation

Modern literature of the Arabs, Persians, Turks, and other Islamic peoples.

3 points. Not offered in 1992-93. H

Asian Humanities AHU W 4310y Colloquium on Modern South Asian Texts

Exploration of modern South Asian self-images through the work of A.K. Coomaraswami, Gandhi, Premchand, Raja Rao, Anatha Murthy, Ghalib, Faiz, etc. Emphasis on cultural/intellectual issues and their manifestations in literary form. —F. Pritchett

Permission of the instructor required.

4 points. M W 10:00-11:50 H

Asian Humanities AHU V 3200y Oriental Encounters: Myths, Metaphors, and Narratives

Selected texts of India and the Middle East viewed through the writings of Goethe, Nietzsche, Thoreau, Whitman, Melville, Yeats, Eliot, Forster, and Rushdie. Readings from the *Bhagavad Gita*, the Upanishads, Buddhist dialogues, Zoroastrian hymns, Persian poems, the *Quran*, and the *Thousand and One Nights*. —B. Miller

3 points. Tu 2:10-4:00 H

Asian Humanities AHU V 3830y Colloquium on Modern East Asian Texts

Exploration of modern East Asian traditions through intensive reading of literary masterpieces by Lu Xun, Shen Congwen, Akuta-gawa Ryunosuke, Kawabata Yasunari, Choi Inhon, Kim Tongin, etc. Emphasis on cultural/intellectual issues and their manifestation in literary forms. —D. Wang

4 points. Tu 4:10-6:00 H

Asian Humanities-Music AHM V 3320y Introduction to the Music of East Asia and Southeast Asia

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —D. Christensen

3 points. M W 6:10-8:00 H

One hour is a listening hour.

Asian Humanities-Music AHM V 3321x Introduction to the Music of India and West Asia

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —P. Manuel

3 points. Tu Th 1:10-3:00 H

One hour is a listening hour.

Asian Humanities AHU V 3340x, y Masterpieces of Art in China, Japan, and Korea

Selected masterpieces of painting, sculpture and architecture from the Han Empire in China to modern times in Japan, in relation to contemporary history, philosophy, religion and literature.

3 points.

x: Tu Th 6:10-7:25. Instructor to be announced.

y: Sec. 1 Tu Th 10:35-11:50. D. Delbanco H

Sec. 2 Time and instructor to be announced.

Asian Humanities AHU V 3342x, y Masterpieces of Islamic and Indian Art

Analysis and discussion of the significance of selected works of art and architecture of Islam and Buddhist and Hindu India. —V. Dehejia

3 points. M W 10:35-11:50 H

Asian Studies ASH BC 3999x, y Independent Study

Specialized reading and research projects planned in consultation with members of the Asian and Middle Eastern Cultures teaching staff. —Staff
Open to majors who have fulfilled basic major requirements on written permission of the staff member who will supervise the project.

4 points. Hours to be arranged.

EAST ASIAN

Art History ARH V 3201x Arts of China

A survey of major arts of ceramics, bronzes, jades, painting, and calligraphy. Museum laboratory sessions. —D. Sensabaugh

3 points. Tu Th 4:10-5:25 H

East Asian EAS V 3315x Literature and Film in Modern China

An intensive examination of modern Chinese fiction and films in the context of Chinese social, political, and cultural dynamics from the May 4th Movement (1919) to the present. —D. Wang

3 points. Tu Th 11:10-12:1. H

East Asian EAS V 3623y The World of the Shining Prince

A knowledge of Japanese is not required. Analysis and discussion of representative works of Japanese literature from the mid-19th century to the present. —P. Anderer

3 points. Not offered in 1992-93. H

East Asian EAS W 3334x Introduction to Japanese Literature

3 points. Not offered in 1992-93. H

East Asian EAS V 3210x

Korean Lives

An examination of key events, institutions, and personalities in Korean history from the 18th to the 20th centuries, as seen through Korean biographical literature in translation. The emphasis is on individual responses to the challenges and problems Korea has faced in its path from Confucian kingdom to modern industrial state. —G. Ledyard
3 points. Tu Th 2:40-3:55 H

East Asian EAS V 3565y

The Erotic Tradition in Classical Chinese Literature

Exploration of the way pre-modern Chinese writers have expressed their attitudes toward sexuality and desire in their writings. Particular emphasis will be placed on how the role of women in traditional society shaped erotic and romantic traditions. —P. Rouzer
3 points. Tu Th 2:40-3:55 H

Chinese CHI W 3550x

Modern Chinese Literature and Its Classical Tradition

—D. Wang
3 points. Not offered in 1992-93. H

Chinese CHI W 4027x-4028y

Introduction to Chinese Thought

An introduction to the major works of Chinese classical philosophy and to the dominant trends in the later development of Chinese thought, including (W 4027): the *Analects* of Confucius, Mo-tzu, Mencius, Lao-tzu, Chuang-tzu, Hsun Tzu, Legalism, ritual texts, Neo-Taoism; and (W 4028) Chinese Buddhism, T'ang thought, and the Neo-Confucianism of the Sung, Yuan, Ming, and Ch'ing periods. —I. Bloom (4027x) and W.T. deBary (4028y)
3 points. Tu Th 2:40-3:40 H

Chinese CHI G 4031x

Chinese Literature I

—P. Rouzer
3 points. Not offered in 1992-93. H

East Asian EAS V 3610y

Social Change Reflected in the Literature and Films of Modern Japan

—C. Gluck
3 points. Not offered in 1992-93.

East Asian EAS V 3615x

Japanese Literature and Film

Japanese literary forms and literary content and their relationship to Japanese film. —P. Anderer
3 points. M W 2:10-4:00 H

East Asian EAS V 3620x

Japan: The Aesthetic Tradition

Explorations in cultural history, stressing the aesthetic sensibility of the Japanese as revealed in religion, society, thought, and the arts. Emphasis is on such distinctive pursuits as landscape gardens, the culture of tea, the Noh theater, and the modern "I-novel." —H. P. Varley
3 points. M W 11:00-12:15 H

East Asian EAS V 3635x

The Female Voice in Japanese Literature, Religion, and Culture

An examination of women's participation in Japanese social, political, religious, and literary history from the 7th to 20th century, with special attention to the role of women writers from the classical period to the present day. —B. Ruch
Permission of the instructor required.
3 points. Tu Th 10:35-11:50 H

History-Japanese HIJ W 3600x

World War II in American and Japanese History

—C. Gluck
3 points. Not offered in 1992-93. H

History-Japanese HIJ V 3613y

Buildings and Cities in Japanese History

—H. Smith
3 points. Not offered in 1992-93. H

East Asian EAS V 3650x

The Family in Chinese History

—R. Hymes
3 points. Not offered in 1992-93. S

History HIS BC 1021x

Late Imperial China, 1550-1900

An introduction to China during the late Ming and Qing dynasties, with emphasis on dynastic change, commercialization, urbanization, population growth, imperialist encroachment, and mid-19th century rebellion. —R. Lufrano
3 points. M W 2:40-3:55 S

History HIS BC 1022y

China in the Twentieth Century

Attempts at state formation and the rise of the revolutionary parties; foreign power intervention, economic crisis and development, and the rise of new social classes; the changing status of women and intellectual and cultural change. —R. Lufrano
3 points. M W 2:40-3:55 S

History HIS BC 3430y

The Cultural Revolution in China

Origins, history, and the aftermath of one of the pivotal events in 20th-century Chinese history. Emphasis on ideological and power struggles, the role of the Red Guards and the army, and the effect of radical policies on society and economy.

—R. Lufrano

Limited enrollment. Preregistration required.

4 points. Th 4:10-6:00

S

East Asian EAS W 4101y

Critical Approaches to East Asian Literature

Principles of literary theory developed in the West, contrasted with literary criticism of China and Japan. Emphasis on the application of these critical methods to selected works of Chinese and Japanese poetry and prose. —D. Wang

3 points. Tu Th 1:10-2:25

H

East Asian EAS W 4103x or y

Historiography of East Asia

Major issues in the practice of history illustrated by critical reading of important historical work on East Asia. —x: C. Gluck; y: R. Hymes

3 points. W 11:00-1:00

S

History-Korean HIK W 4031x

The History of Korea to 1636

An introduction to the development of Korean civilization from the Neolithic age to 1636.

—G. Ledyard

3 points. Tu Th 1:10-2:25

History-Korean HIK W 4033y

The History of Modern Korea

Korean history from 1636 to the present.

—G. Ledyard

3 points. Tu Th 1:10-2:25

S

Religion REL V 2603y

Taoism

—A. Zito

3 points. Tu Th 10:35-11:50

H

East Asian EAS W 3901x-W3902y

Senior Seminar: China

Senior thesis seminar, required of all majors specializing in China. —Staff

3901x: research. 3902y: writing. Senior majors only. 2 points each term. Hours to be arranged.

East Asian EAS W 3903x-W3904y

Senior Seminar: Japan or Korea

Senior thesis seminar required of all majors specializing in Japan or Korea. —Staff

3903x: research. 3904y: writing. Senior majors only. 2 points each term. Hours to be arranged.

MIDDLE EAST AND SOUTH ASIA

Hebrew W 3410x

Introduction to Modern Hebrew Culture

—D. Miron

3 points. M W 4:10-5:25

Comparative Literature-Middle

East CME W 4115y

Traditions of Indian Literature:

Epic, Drama, and Lyric

Critical examination of selected ancient and classical Indian texts, focusing on the two ancient epics, *Mahabharata* and *Ramayana*, and the dramatic and lyric works related to them. Poems and plays in Sanskrit and Tamil will be studied in terms of Indian and Western theories of literature. Readings in translation. —B. Miller

3 points. Not offered in 1992-93.

H

Islamic-Religion ISR V 2630y

Islam

Islamic institutions, ideas, and spirituality, their origin and development in the formative and classical periods (7th-13th century C.E.), and their continued evolution in a variety of cultural settings. —P. Awn

3 points. M W 4:10-5:25

H

COMPARATIVE COURSES

Anthropology-Asian Studies AAS V 3501y

Women in Japanese Society

An anthropological examination of the positions of women in Japanese society. Through situating them among world ethnographies and applying anthropological theories, the course undertakes to reevaluate myths and stereotypes of Japanese women. Topics include women in politics, work, family and marriage, reproduction, sexuality, illness and aging, as well as feminism and the construction of gender ideology. —K. Ikeda

3 points. Tu Th 1:10-2:25

H

Middle East-Religion MDR W 3030y

Poetics of the Sacred: A Cross-Cultural Investigation into the Nature of Mysticism and Poetic Language

An examination of the work of mystic-poets from both Asian and Western traditions, focusing on the paradigm of vision and silence, the effort to express the ineffable. Readings include the Upanishads, Rumi, Han-shan, John of the Cross, William Blake, T.S. Eliot, Gary Snyder, and critical works on mysticism and poetic language. —E. Huberman

4 points. Tu 11:00-12:50

H

Political Science POS BC 3424x
Colloquium on Asian Politics

Comparative analysis of national experiences and political ideas and political development in India and China. —L. Calman
Prerequisite: V 3505 or permission of the instructor.
Alternate years. Enrollment limited to 20 students.
4 points. Not offered in 1992-93.

Religion REL V 1102x, y
Introduction to the Study of Eastern Religions

3 points. x: M W 1:10-2:25 —R. Abe H
y: Tu Th 2:40-3:55 —J. Hawley, A. Zito

Religion REL V 2600x
Hinduism

—J. Hawley
3 points. Tu Th 2:40-3:55

Also note offerings under departments of Anthropology, Art History, History, Political Science and Religion.

ASIAN LANGUAGE COURSES

Language and literature courses are offered through the departments of East Asian Languages and Cultures and Middle East Languages and Cultures. Consult the listings of these departments in the Columbia College and Graduate School of Arts and Sciences bulletins for all the languages offered and detailed descriptions of courses.

GRADUATE COURSES

Certain graduate courses given in the University may be taken by majors, with the consent of the major adviser, to supplement department offerings. Consult the Bulletin of the Graduate School of Arts and Sciences for listings.

BIOLOGICAL SCIENCES

1203 Altschul Hall

854-2437

General Biology Course Office: 911 Altschul Hall

854-2153

Professors: Philip V. Ammirato, Patricia L. Dudley, Paul E. Hertz (Chair)

Associate Professors: Julia Chase

Assistant Professors: Nathan M. Chu, James P. Mohler, Bruce A. O'Gara, Jeanne S. Poindexter, Helen J. Young

General Biology Laboratory Staff:

Director: Alice M. Walrath

Laboratory Associates: John Cozza, Wanda Knauss, Cliff Kolba, Tasneem Qamar, Harriet Waks

Other officers of the University offering courses listed below:

Professors: Walter J. Bock, Catherine L. Squires, Alexander A. Tzagoloff

Assistant Professor: Teri Melese

Biology is a field which explores the structure, function, interactions, and evolution of living organisms. Some of the most exciting issues of our era, such as those relating to biotechnology, genetic engineering, environmental problems, and health, require a strong background in biology. At Barnard courses cover molecular biology; the fine structure, development and physiology of cells, tissues, and organs; the embryology, behavior and structure of organisms; and the ecology and evolution of populations and communities.

Many students specialize in Biology in preparation for a career in medicine, dentistry, public health, or nutrition, while others anticipate graduate work in one of the many sub-fields of biology leading to a teaching and/or research career. Still others plan futures as scientific writers, illustrators or photographers, researchers in industry or government or in environmental law.

Equipment available at Barnard includes an RCA 4B transmission electron microscope and an ISI SX-40 scanning electron microscope with accessory equipment, photomicrographic and darkroom instruments, microcomputers, a scintillation counter, an ultracentrifuge, an automated oxygen analyzer, a chemostat and physiographs. The facilities include constant temperature rooms, darkrooms, an animal care facility, and a greenhouse. A Biology Club, originated and governed by students and sponsored by the department, presents seminars and film programs of interest.

Students are encouraged to do summer work in biological laboratories or field stations. Financial assistance for such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund, the Herbert Maule Richards Fund, or the Donald and Nancy Ritchie Fund. The department maintains a file of summer courses and research stations, and information on available funds can be obtained in the department office. Support for participation or assistance in the research of the Barnard faculty is available from research grants and program grants. Advanced students may also work as Teaching Assistants in introductory courses.

The Barnard Biology Department offers several options at the introductory level; students should select courses on the basis of their prior preparation and background in Biology. For students with little prior experience, BC 1001x provides an appropriate introduction to important concepts in the field. Biology BC 1002y expands upon that introduction with detailed discussions of three important topics. Both BC 1001 and BC 1002 include a laboratory component and together fulfill Barnard's laboratory science requirement (through neither course receives credit for the Biology major). Alternatively, a student who is interested in a broader treatment of the field in preparation for advanced study in Biology may enter the 2000-level sequence (BC 2001y) immediately after completing BC 1001x.

However, students who enter Barnard with a strong background in Biology should enroll directly in the 2000-level sequence. The four 2000-level courses (two lecture courses and two laboratory course) comprise an introduction that is suitable for potential Biology majors, majors in the other sciences, and students interested in the health professions. The 2000-level introductory courses are prerequisites for upper-level courses in the department. Either BC 2001 or BC 2002 may be taken first.

Students who have passed the Advanced Placement examination with a grade of 4 or 5 and evidence of satisfactory laboratory experience are exempt from BC 1001 and receive 3 points of AP credit. A laboratory notebook may be submitted to the department for a possible 1-1/2 points of additional credit. Students who receive AP credit with a grade of 4 or 5 may complete the science requirement with BC 1002. If a student anticipates further study of Biology or other natural sciences, she should instead enroll in the 2000-level sequence; completion of either BC 2003 or BC 2004 and either BC 2001 or BC 2002 will fulfill the science requirement for a student who receives AP credit.

REQUIREMENTS FOR THE MAJOR

The curriculum for Biology majors is designed to satisfy the needs of students who plan to engage in postgraduate study of Biology or medically oriented fields and to complement the general education mission of a liberal arts college. The minimum requirements for a major in Biology are listed below:

Introductory Biology. Students must complete a year of introductory biology, including the laboratory (BC 2001, 2002, 2003, 2004 or equivalent). Students who enrolled at Barnard before September 1992 are not required to take BC 2004.

Three Core Lecture Courses. One lecture course must be selected from each of the following three pairs:

- | | | | | |
|------------|--------------------------|----|---------|---|
| 1. BC 3302 | <i>Molecular Biology</i> | or | BC 3310 | <i>Cells and Tissues</i> |
| 2. BC 3340 | <i>Plant Physiology</i> | or | BC 3360 | <i>Mammalian Physiology</i> |
| 3. BC 3370 | <i>General Ecology</i> | or | BC 3372 | <i>Population and Community Ecology</i> |

Three Elective Lecture Courses. Students must take three additional lecture courses in Biology. Any biology lecture course can be chosen, including core courses not used to fulfill that requirement. Courses should reflect the diversity of the offerings. At least one course in genetics and one in organismal biology are recommended. Courses numbered at the 3200 level are particularly appropriate for sophomores who have completed *General Biology*; courses at the 3300 level are more advanced and may require additional prerequisites.

Three Elective Laboratories. Students must complete at least three laboratories beyond Introductory Biology; at least one of the three must be a 3300-level course. Laboratories may require a lecture course as a co-requisite or pre-requisite; such requirements are specified in the course descriptions below. A student may count a Guided Research project (BC 3591) as an elective laboratory in accordance with the guidelines listed below; however, only one term of Guided Research will receive credit toward the major. Biology laboratories at Barnard require a lab fee of \$40 per course. Appropriate biology laboratories at Columbia University may be used to satisfy the lab requirement as may those taken at other institutions, the latter with permission of the department chair.

Senior Seminar or Individual Research with Seminar. Students must enroll in one section of the *Senior Seminar* (BC 3590) or complete a Guided Research project in the laboratory of a member of the Barnard Biology Department (BC 3591), including concurrent participation in the *Research Seminar* (BC 3595). If a student completes a Guided Research project in lieu of the senior seminar, she may not also use a Guided Research project to fulfill part of the laboratory requirement.

BIOLOGICAL SCIENCES

Chemistry Requirement. One year of Chemistry with laboratory, including one term of Organic Chemistry, is required (Chemistry BC 1601, BC 3328, and BC 3230).

The Graduate Record Examination is used as the major examination. The scores are also used, together with grade point average and faculty recommendations, to determine the recipients of departmental honors.

Participation in a special project Biology BC 3591 or BC 3592, is highly recommended. These courses give the student an opportunity to conduct independent laboratory research. Both intradepartmental (BC 3591) and extradepartmental (BC 3592) projects require the approval of a faculty member in the department who serves as sponsor (intradepartmental projects) or as cosponsor (extradepartmental projects). All projects must involve planning, experimentation, and interpretation of results, and all require a formal report written in journal style. A Guided Research project (BC 3591) may be used in lieu of a Senior Seminar or an Elective Laboratory to fulfill Biology major requirements; however, Guided Research that is to be counted toward the major requires concurrent enrollment in the Research Seminar (BC 3595). Only one term of Guided Research will receive credit toward the major. Intradepartmental projects are graded by letter grade or P*/D/F at the option of the faculty sponsor. Extradepartmental projects (BC 3592) receive only pass or fail grades; they do not fulfill any major requirements, but they do receive college credit.

Entering first-year students who plan to major in biology are encouraged to take these chemistry courses in addition to Biology BC 2001, 2002, 2003 and 2004 in their first year. Some upper level biology courses require a second term of organic chemistry (Chemistry BC 3231, *Organic Chemistry II*). Students interested in attending graduate or professional schools should take additional chemistry courses (Chemistry BC 3232, *Intermediate General Chemistry*; BC 3338, *Quantitative and Instrumental Techniques Laboratory*) and in addition, one year each of calculus and physics; a course in statistics is also recommended. Students interested in behavioral biology may also wish to enroll in *Physiological Psychology* (Psychology BC 1117 or BC 1119); although the course does not fulfill any Biology major requirement, the grade for this course may be included in the Biology major average. Graduate work generally requires a working knowledge of one or more foreign languages.

Students interested in the health sciences should register with the Pre-Professional Office during their first two years and should take the MCAT exam at the end of their junior year.

REQUIREMENTS FOR THE MINOR

A minor in Biology must have one year of introductory biology (BC 2001, BC 2002, BC 2003, BC 2004), three additional lecture courses, and two additional laboratories. Biochemistry, Chemistry, Environmental Science, Physics, and Psychology majors need take only one advanced laboratory instead of two.

COURSES OF INSTRUCTION

BIO BC 1001x

Revolutionary Concepts in Biology

An exploration of the major discoveries and ideas that have revolutionized the way we view organisms and understand life. The basic concepts of cell biology, anatomy and physiology, genetics, evolution, and ecology will be traced from seminal discoveries to the modern era. The laboratory will develop these concepts and analyze biological diversity through a combined experimental

and observational approach. (This course does not fulfill Biology major requirements or premedical requirements.) —P. Ammirato

Enrollment in laboratory sections limited to 16 students per section.

4.5 points. Lecture M W F 9:00-9:50

*Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50,
M Tu W or Th 1:10-4:00 or 2:10-5:00*

BIO BC 1002y

Contemporary Issues in Biology

An exploration of modern biology as it pertains to contemporary issues. The first module examines the biology of viral pathogens of animal cells, in particular the virus responsible for AIDS. The second module considers human physiology and health, focusing on major health issues. The third module explores population growth and resource use, emphasizing the uniqueness of human populations. Lab exercises introduce biological techniques for studying these topics. (This course does not fulfill Biology major requirements or premedical requirements.) —P. Hertz, J. Mohler, B. O’Gara
Prerequisites: BIO BC 1001, or AP score of 4 or 5, or equivalent preparation and background. Enrollment in laboratory sections limited to 16 students per section.
 4.5 points. M W F 9:00-9:50

Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50,
 M Tu W or Th 1:10-4:00 or 2:10-5:00

BIO BC 1099y

Science and Scientists

Discussions led by research scientists from Barnard, Columbia, and other institutions. Topics include identifying research problems and conducting scientific research as well as recent conceptual and technical developments in science. —B. O’Gara
Enrollment limited to first and second year students.
 1 point. Tu 2:10-4:00

BIO BC 2001y

Molecular, Cellular, & Developmental Biology

A detailed introduction to cellular and subcellular biology; cell structure and function; biochemical analysis of metabolic and catabolic pathways; molecular biology and the biogenesis of cell components; genetics and the biology of inheritance; patterns of development, embryology through neuralation. (This course is suitable for fulfillment of premedical requirements.) —J. Poindexter
Prerequisites: BIO BC 1001 or AP score of 3 or higher or equivalent preparation.
 3 points. M W F 9:00-9:50

BIO BC 2002x

Physiology, Ecology, and Evolutionary Biology

A detailed introduction to biological phenomena above the cellular level; development, anatomy, and physiology of plants and animals; physiological, population, behavioral, and community ecology; evolutionary theory; analysis of micro-evolutionary events; systematics. —P. Hertz
 (This course is suitable for fulfillment of premedical requirements.) *Prerequisites:* BIO BC 1001 or AP

score of 3 or higher or equivalent preparation.
 3 points. M W F 9:00-9:50

BIO BC 2003x

Biodiversity Laboratory

A laboratory-based introduction to the five kingdoms of living organisms; anatomy, physiology, evolution, and systematics of major groups; laboratory techniques for studying specialized adaptations. —H. Young

(This course is suitable for fulfillment of premedical requirements.) *Prerequisites:* BIO BC 1001. AP score of 3 or higher.

2 points. M 10:00-10:50 or F 1:10-2:00

Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50,
 M Tu W or Th 1:10-4:00 or 2:10-5:00

BIO BC 2004y

Biological Experimentation Laboratory

A laboratory-based introduction to experimental biology; classic and modern approaches to the investigation of growth, development, reproduction, heredity, environmental influences, enzymes, and correlation between structure and function. Experimental design, practical techniques, and data interpretation. —N. Chu/J. Poindexter
 (This course is suitable for fulfillment of premedical requirements.) *Prerequisites:* BIO BC 1001 or AP score of 3 or higher.
 2 points. M 10:00-10:50 or F 1:10-2:00
Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50,
 M Tu W or Th 1:10-4:00 or 2:10-5:00

BIO BC 3200x

Genetics

Genetics of eukaryotes, prokaryotes and viruses, with special emphasis on human genetics; segregation; recombination, mapping, and the measurement of linkage; cytogenetics; population genetics; molecular genetics. —N. Chu
Prerequisite: BC 2001, 2002, 2003 or the equivalent. One semester of chemistry is recommended.
 3 points. M W F 12:00-12:50 plus one hour required recitation to be arranged.

BIO BC 3201x

Laboratory in Genetics

Exercises in the use of *Drosophila*, *Neurospora*, bacteria and bacteriophages to illustrate basic genetic principles and to investigate population genetics, linkage and recombination, and biochemical genetics; techniques used in human genetics and cytogenetics. —N. Chu
Prerequisite or corequisite: BC 3200 or the equivalent. Enrollment limited to 16 students per section. Recitation and laboratory.
 2 points. Not offered in 1992-93.

BIO BC 3240x

Plant Biology

Evolutionary, morphological, physiological, and ecological aspects of plants, with some attention to their historical, esthetic, and economic importance. —H. Young

Prerequisite: BC 2001, 2002, 2003 or the equivalent.

Alternate years.

3 points. M W F 11:00-11:50

BIO BC 3241x

Laboratory in Plant Biology

Studies of the structure, ecology, and evolution of green plants. A survey of major groups from the aquatic forms, the algae, to the most complex terrestrial plants, the angiosperms, with emphasis on the relation of form to function. —H. Young

Prerequisite or corequisite: BC 3240. *Enrollment limited to 16 students. Alternate years.*

2 points. W 1:10-5:00

BIO BC 3250x

Invertebrate Zoology

The biology of invertebrate animals; comparative structure and physiology of the cells, tissues, and organs of invertebrates; the development, behavior and evolution of these animals, stressing their adaptations to marine, freshwater, and terrestrial habitats. —P. Dudley

Prerequisite: BC 2001, 2002, 2003 or the equivalent.

3 points. Tu Th 10:35-11:50

BIO BC 3251x

Laboratory in Invertebrate Zoology

Studies on the adaptive biology of invertebrate animals. A survey of major and minor phyla of invertebrates, including observations and other studies of living animals. One-third of the course will be devoted to an independent project involving electron microscopy, anatomy, physiology, behavior, or ecology. —P. Dudley

Prerequisite or corequisite: BC 2001, 2002, 2003 or the equivalent. BC 3250 is recommended as a prerequisite or corequisite, but is not required.

Enrollment limited to 24 students. Alternate years.

2 points. Th 1:10-6:00

BIO BC 3252y

Animal Development

An introduction to animal development stressing the mechanisms that control developmental processes. Topics include spermatogenesis, oogenesis, fertilization, cleavage, establishment of the body plan, cellular events in gastrulation and morphogenesis, and control of gene expression in development. —J. Mohler

Prerequisites: BC 2001, 2002, 2003, 2004 or the

equivalent; one year of chemistry (including one semester of organic chemistry) is recommended.

Alternate years.

3 points. Tu Th 10:35-11:50

BIO BC 3260y

Vertebrate Zoology

A systematic survey of the Phylum Chordata: fossil history, biogeography, systematics, natural history, body architecture, energetics, locomotion, feeding and behavior. —P. Hertz

Prerequisite: BC 2001, 2002, 2003 or the equivalent.

Alternate years.

3 points. Not offered in 1992-93.

BIO BC 3280x

Animal Behavior

Introduction to animal behavior; physiological bases of behavior (sensory systems, neuro-physiology of behavior, appetitive and reproductive behavior), ethological approaches to behavior (communication, territoriality, dominance and aggression) and evolution of behavior (behavior genetics, behavioral ecology, sociobiology). —J. Chase

Prerequisite: BC 2001, 2002, 2003 or one year of psychology.

3 points. M W 6:10-7:25

BIO BC 3302x

Molecular Biology

An introduction to molecular biology. Topics include: genome organization, DNA replication, regulation of RNA synthesis, protein synthesis, macromolecular cell biology, and control of gene expression in development. —J. Mohler

Prerequisites: BC 2001 or the equivalent and a year of chemistry, including one term of organic chemistry with laboratory.

3 points. M W F 9:00-9:50

BIO BC 3303y

Laboratory in Molecular Biology

An introduction to the use of molecular techniques to answer questions about subcellular biological phenomena. Techniques include isolation of genomic and plasmid DNAs, restriction enzyme analysis, DNA and protein electrophoresis, bacterial transformation, and plasmid subcloning. —J. Mohler

Prerequisite or corequisite: BC 3302 or permission of the instructor. Limited to 18 students. *Alternate years.*

3 points. M 1:10-6:00

BIO BC 3305y

Project Laboratory in Molecular Biology

A project laboratory in molecular biology of *Drosophila*. Experiments will include isolation of

phage, plasmid and genomic DNA: screening of DNA libraries; restriction mapping, Southern analysis and characterization of RNA transcripts. Project will characterize a particular unknown *Drosophila* sequence and RNA derived in vivo from that DNA. —J. Mohler

Prerequisite: BC 3302 or permission of the instructor; *Chemistry BC 3355x is recommended. Enrollment limited to 12 students. Alternate years. 5 points. Not offered in 1992-93.*

BIO BC 3307y

Project Laboratory in Plant Molecular Biology

A project laboratory in the molecular biology of plants. Experiments will include transformation of plants using bacterial vehicles and analysis of transformed cells and tissues using non-radioactive screening techniques. Screening of plant genomic libraries and analysis of RNA transcripts. —N. Chu

Prerequisites: Bio BC 2001, 2002, 2003, 2004 or the equivalent, and one semester of organic chemistry. Upper level laboratory recommend BC3321, 3343 or 3341 and permission of the instructor. Enrollment limited to 16 students. Offered in alternate years. 5 points. Tu Th 1:10-6:00

BIO BC 3310y

Cells and Tissues

Structural, molecular and physiological aspects of cells and tissues in vertebrate animals; electron microscopic studies of the structure of cell organelles; modern concepts of function. —P. Dudley

Prerequisites: BC 2001, 2002, 2003, 2004 or the equivalent and one advanced biology course. A year of chemistry, including organic chemistry is required. 3 points. M W 11:00-12:15

BIO BC 3311x

Laboratory in Cell and Tissue Biology

Correlated light microscopic and electron microscopic analyses of the structure of tissues and organs of vertebrate animals; demonstrations and practice in histochemical, light microscopic and electron microscopic techniques. —P. Dudley
Prerequisite or corequisite: BC 3310 or the equivalent. Enrollment limited to 16 students. 3 points. Not offered in 1992-93.

BIO BC 3320x

Microbiology

Study of prokaryotic and selected eukaryotic microorganisms with regard to cell structure, physiology and metabolism; genetic mechanisms and inter-relationships in bacteria. Some aspects of applied microbiology, the role of microorgan-

isms in natural processes, aspects of pathogenicity and immunity to disease. —J. Poindexter

Prerequisites: BC 2001, 2002, 2003, 2004 and one semester of organic chemistry. 3 points. M W F 11:00-11:50

BIO BC 3321x

Laboratory in Microbiology

Provides experience in the isolation, cultivation, and preservation of pure cultures of microorganisms from natural populations. Methods used for study of cell structure, growth, physiology, and genetics of bacteria will be followed by a small, independent project. —J. Poindexter

Prerequisite or corequisite: BC 3320. Enrollment limited to 16 students. Recitation and laboratory 3 points. Tu 1:10-4:00 and Th 1:10-3:00

BIO BC 3340y

Plant Physiology

Processes of metabolism, nutrition, growth, and development of green plants; photosynthesis, respiration, nitrogen and intermediate metabolism, water and solute uptake and transfer, translocation, plant growth regulators, tropisms and nasties, photoperiodism, vernalization, dormancy senescence and death. — P. Ammirato
Prerequisites: BC 2001, 2002, 2003, 2004 or the equivalent, and one term of organic chemistry. 3 points. Alternate years. Tu Th 9:10-10:35

BIO BC 3341y

Laboratory in Plant Physiology

Determination of water potential and transpiration rates. Solute uptake and mineral deficiency studies. The Hill reaction. CO₂ compensation points and respiration rates. Extraction, separation and identification of amino acids, nucleic acids and plant hormones. Bioassay procedures with whole plants and cell cultures. Studies of phytochrome controlled germination and photomorphogenesis. — P. Ammirato
Prerequisite or corequisite: BC 3340. Alternate years. 3 points. W 1:10-6:00

BIO BC 3342y

Plant Development

Processes of growth, differentiation and organization in plants; major morphogenetic events in the transition from zygote to flowering plant; hormonal and environmental effects and mechanisms of action. —P. Ammirato
Prerequisites: BC 2001, 2002, 2003, 2004 or the equivalent, and one semester of organic chemistry. Alternate years. 3 points. Not offered in 1992-93.

BIO BC 3343y

Laboratory in Plant Development

An experimental approach to the patterns, processes, and control mechanisms of plant development. Meristems and cell differentiation; embryogenesis and organogenesis; responses to hormones and environmental variables. Work with whole plant, organ and cell cultures.—P. Ammirato
Prerequisite or corequisite: BC 3342.
Enrollment limited to 16 students. Alternate years.
 3 points. Not offered in 1992-93.

BIO BC 3360y

Mammalian Physiology

Physiology of major organ systems; function and control of circulatory, respiratory, digestive, excretory, endocrine, nervous and immune systems in animals; emphasis on higher vertebrates and humans.—J. Chase
Prerequisites: Three semesters of biology and one semester of organic chemistry.
 3 points. M W 6:10-7:25

BIO BC 3361y

Laboratory in Animal Physiology

Physiographic recording of cardiac, respiratory and muscle function; small animal surgery; stereotaxic technique and histological confirmation of lesions. Additional laboratories in amphibian metamorphosis, enzyme kinetics, active transport, exercise physiology and renal function.—J. Chase
Prerequisite: BC 3360.
Enrollment limited to 16 students.
 3 points. Recitation and laboratory F 1:10-6:00

BIO BC 3362x

Neurobiology

Structure and function of neural membranes; ionic basis of membrane potential and action potential; synaptic transmission and neurochemistry; sensory transduction and processing; reflexes and spinal cord physiology; muscle structure and function; neuronal circuitry as it relates to behavior; nervous system development; regeneration.—B. O'Gara
Prerequisites: BC 2001, 2002, 2003, 2004 or the equivalent, and one semester of organic chemistry. BIO BC 3360 or PSY BC 1117 or BC 1119 is recommended.
 3 points. Tu Th 10:35-11:50

BIO BC 3363x

Laboratory in Neurobiology

Introduction to techniques commonly used in current neurobiological research, including intracellular and extracellular recording of action potentials, neuroanatomical methods, biochemical

isolation of neuroactive and myoactive substances, and computer simulation of the action potential.

—B. O'Gara

Prerequisites or corequisites: BIO BC 3362.

Enrollment limited to 16 students.

3 points. M 1:10-6:00

BIO BC 3370y

General Ecology

Effects of selected physicochemical environmental factors on organisms in populations and communities; characteristics of major terrestrial and aquatic ecosystems; human influences on the environment.—P. Dudley
Prerequisites: BIO BC 2001, 2002, 2003 or the equivalent. A course in general chemistry is recommended.
Alternate years.
 3 points. Not offered in 1992-93.

BIO BC 3372y

Population and Community Ecology

Introduction to evolutionary ecology; life history strategies, population growth, competition, predator-prey interactions, population regulation, species diversity, community organization, biogeography. Lectures integrate theory with empirical studies.—P. Hertz
Prerequisites: BIO BC 2001, 2002, 2003, 2004 and any additional Biology course. *Alternate years.*
 3 points. Tu Th 10:35-11:50

BIO BC 3373x

Laboratory in Ecology

The definition of ecological problems in experimentally tractable ways; the design of experiments and analysis of ecological data; class projects on population ecology; students conduct individual projects during last month of term.—P. Hertz
Prerequisite or corequisite: BC 3370 or BC 3372.
Enrollment limited to 16 students. Alternate years.
 3 points. Not offered in 1992-93.

BIO BC 3380y

Evolution

A study of the process of evolution with emphasis on the mechanisms underlying evolutionary change. Topics include rates and direction of evolution, genetics of the evolutionary process, adaptive significance of sex and life history variation, coevolution.—H. Young
Prerequisites: BC 2001, 2002, 2003, 2004 or the equivalent.
 3 points. M W F 10:00-10:50

BIO BC 3590x, y

Senior Seminars in Biology

Required of all majors who do not select Guided Research (BIO BC 3591) to fulfill the senior requirement, these seminars allow students to explore the primary literature in the Biological Sciences in greater depth than can be achieved in a lecture course. Attention will be focused on both theoretical and empirical work. Seminar periods are devoted to oral reports and discussion of assigned readings and student reports. Students will write one extensive literature review of a topic related to the central theme of the seminar section.

4 points.

1. Plant Biotechnology

—P. Ammirato

Not offered in 1992-93.

2. Sociobiology

—J. Chase

Not offered in 1992-93.

3. Evolutionary Ecology

—P. Hertz

Not offered in 1992-93.

4. Molecular Development and Genetics

—J. Mohler

Autumn Tu 4:10-6:00.

5. Human Genome Project

—N. Chu

Not offered in 1992-93.

7. Tropical Biology

—H. Young

Not offered in 1992-93.

8. Virus Structure and Propagation

—J. Poindexter

Not offered in 1992-93.

9. Neurobiology

—B. O'Gara

Spring Tu 6:10-8:00

BIO BC 3591x, y

Guided Research in Biology

Independent research in the department to suit the needs of the individual student in consultation with faculty sponsor. Participation in department Research Seminar (BC 3595) required.—Staff
Prerequisites: Three semesters of college biology and permission of a faculty sponsor. *Corequisite:* BC 3595. Graded with a letter grade or P*/D/F at the discretion of the faculty supervisor.

4 points. Hours for research and seminar to be arranged.

BIO BC 3592x, y

External Research in Biology

Research projects conducted outside the department developed in consultation with a faculty member who serves as cosponsor.—Staff
Prerequisites: Three semesters of college biology and permission of a faculty cosponsor. 1-4 points. Hours to be arranged. *NOTE:* BC 3592 does not receive credit toward the biology major. Graded P*/D/F.

BIO BC 3593x-3594y

Research and Seminar in Biopsychology

Independent research under faculty supervision culminating in a research paper and oral presentation. Throughout the year, weekly seminars will be used to discuss research approaches, methodological difficulties, and data analysis.—Staff
Prerequisites: Six of the required courses for the biopsychology major.

4 points. Hours to be arranged.

BIO BC 3595 x,y

Research Seminar

Discussions of approaches to research, methods of scientific communication, and the presentation of scientific data, culminating in a paper and oral report of the results of a research project guided by a faculty sponsor. —Staff
Corequisite: BC 3591. 1 point. Hours to be arranged. Graded P*/D/F.

NOTE: Students may take any of the following courses as elective lectures or elective laboratories in fulfillment of the major requirement. Prior permission must be obtained from the Chair of the Barnard Biology Department before other Columbia courses can be used to fulfill the Biology major requirement.

BIO W 3002y

Introduction to Animal Structure and Function

—W. Bock

Prerequisites: One year each of biology and physics. 6 points. Not offered in 1992-93.

BIO C 3046y

Project Laboratory in Eucaryotic Gene Expression

—T. Hazelrigg

Prerequisites: One year of biology and permission of the instructor. Application must be submitted in Room 600 Fairchild. 5 points. Tu and Th 1:10-5:00 and additional hours to be arranged.

BIOLOGICAL SCIENCES

BIO C 3052x

Project Laboratory in Molecular Genetics

—C.L. Squires

Prerequisites: One year of biology and permission of the instructor. Application must be submitted in Room 600 Fairchild.

5 points. Tu and Th 1:10-5:00 and additional hours to be arranged.

Biology-Chemistry BCH C 3501x

Biochemistry I: Structure and Metabolism

—T. Melese and A. Tzagoloff

Prerequisites: C 1005 and one year of organic chemistry.

4 points. M W F 10:00, plus one hour recitation to be arranged.

Advisers: Bruce O’Gara (Biological Sciences), Christina L. Williams (Psychology)

The program in Biopsychology is jointly administered by the departments of Biological Sciences and Psychology, and students should maintain contact with the advisers in both departments. A major in Biopsychology provides a strong background in the behavioral sciences for students who plan to pursue a Ph.D. in Biopsychology or Psychobiology and for whom research training is of prime concern. Students electing this track are exposed to basic courses in Biology and Psychology and advanced courses necessary for the study of behavior. All students engage in two semesters of independent research in the senior year. Substitutions for required courses may be allowed with the approval of both advisers.

The major examination consists of the Graduate Record Examination in either Psychology or Biology.

Students may also arrange interdisciplinary programs by electing a major in either Psychology or Biological Sciences and a minor in the other discipline, or by planning a double major. There is no minor in Biopsychology.

REQUIREMENTS FOR THE MAJOR

Psychology	BC 1001	<i>Introduction to Psychology</i>
Biology	BC 2001, 2002, 2003	<i>Introductory Biology</i>
Psychology	BC 1101	<i>Statistics</i>
Psychology	BC 1105	<i>Psychology of Learning with Laboratory</i>
Biology	BC 3280	<i>Animal Behavior</i>

Two of the following courses; one must include the associated laboratory:

Psychology	BC 1117 or BC 1119	<i>Physiological Psychology</i>
Biology	BC 3360/3361	<i>Mammalian Physiology/Physiology Laboratory</i>
Biology	BC 3362/3363	<i>Neurobiology/Neurobiology Laboratory</i>
Biology	BC 3593-BC 3594	<i>Research and Seminar in Biopsychology</i>

Two advanced courses selected from different categories below:

I.	Psychology BC 2154	<i>Hormones and Reproductive Behavior</i>
	Psychology BC 3378	<i>Females and Males</i>
	Psychology BC 3169	<i>Developmental Psychobiology</i>
II.	Biology BC 3370	<i>General Ecology</i>
	Biology BC 3372	<i>Population and Community Ecology</i>
	Biology BC 3380	<i>Evolution</i>
III.	Psychology BC 3164	<i>Perception and Language</i>
	Psychology BC 3375	<i>Organization and Movement</i>
	Psychology BC 3374	<i>Theories of Learning</i>
IV.	Biology BC 3200	<i>Genetics</i>
	Biology BC 3302	<i>Molecular Biology</i>
	Biology BC 3310	<i>Cells and Tissues</i>
	Biology-Chemistry C3501	<i>Biochemistry</i>
	Biochemistry G 4021	<i>General Biochemistry</i>

Cognate Courses

The following chemistry courses are required: BC 1601, BC 3328, and BC 3230. Students are encouraged to take additional courses in chemistry, physics, and math if they intend to apply to medical or graduate schools.

Professors: Sally Chapman (Chair), Leslie Lessinger

Assistant Professors: Elise Megehee, Marco Pagnotta¹, Daniel Robie, Shelley Weinstock

Visiting Assistant Professor: Meenakshi Rao

Director of General Chemistry Laboratories: Olympia Jebejian

Director of Organic Chemistry Laboratories: James Carter

Associates: Stephen DeMeo, Frances Feerst, Joan Jecewiz, Colette Levi, Noraini Yatim

¹Absent on leave Spring Term

Chemistry is the study of the nature of substances and their transformations. In a three-year sequence of core courses, a chemistry or biochemistry major gains familiarity with the basic areas of the field: inorganic, organic, physical, and analytical chemistry. In addition, she acquires sufficient skill in the laboratory so that she is prepared for independent research.

Students who have taken the Advanced Placement Test may be given advanced placement and one semester's credit with scores of 4 or 5, if they present evidence of satisfactory laboratory experience.

The laboratories of the department are modern and well-equipped both for course work and for independent projects. Students may undertake independent research projects under the guidance of members of the department during the academic year or the summer; some student work has been published in chemical journals. Opportunities are also available for undertaking research projects with members of the staff of one of the many medical schools or research institutions in New York City, as well as with the Columbia faculty.

Students wishing to fulfill the minimum two-year chemistry requirement for medical school should take Chemistry BC 1601, *General Chemistry*; Chemistry BC 3328, BC 3230, and BC 3231, *Organic Chemistry I and II* with laboratory; Chemistry BC 3232, *Intermediate General Chemistry*. The laboratory courses, Chemistry BC 3333 and 3338, are recommended.

Credit will not be given for any course below the 3000 level after completing Chemistry BC 3230 or its equivalent.

The laboratory fee covers the cost of non-returnable items, laboratory manuals, chemicals, and other consumable supplies, as well as reasonable breakage.

R E Q U I R E M E N T S F O R T H E M A J O R

Two majors are offered by the department: chemistry and biochemistry. A major examination is required for both chemistry and biochemistry; there is no senior essay required for either. Qualified seniors are invited to participate in the senior honors program in which they carry out a year-long research project leading to a thesis.

Chemistry

A student who is interested in chemistry should consult any member of the department during her first year. In the first year she should take Chemistry BC 1601, BC 3328, and BC 3230, and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. After completing the undergraduate curriculum, students are encouraged to take graduate courses in chemistry or biochemistry at Columbia, and to undertake independent research projects.

Courses required for the chemistry major are:

Chemistry BC 1601	<i>General Chemistry I</i>
Chemistry BC 3328, 3230	<i>Organic Chemistry I with Laboratory</i>
Chemistry BC 3231	<i>Organic Chemistry II</i>
Chemistry BC 3335	<i>Modern Techniques of Organic Chemistry Laboratory</i>
Chemistry BC 3340	<i>Quantitative and Instrumental Techniques Laboratory</i>
Chemistry BC 3252	<i>Introduction to Thermodynamics and Kinetics</i>
Chemistry BC 3253	<i>Structure, Bonding, and Spectroscopy</i>
Chemistry BC 3254	<i>Methods and Applications in Physical Chemistry</i>
Chemistry BC 3365, 3368	<i>Advanced Chemistry Laboratory</i>
Mathematics	<i>Calculus I and II in any sequence (S, A, or honors)</i>
Physics BC 1206, 1207	<i>Calculus-based Physics with Laboratory</i>
or V 1103, 1104 or C 1406 with W 1906, C 1407 with W 1907	

Recommended: *Calculus III* and Chemistry C 3071y.

A list of major requirements, several possible course sequences, and information about the major examination may be obtained from any member of the department.

Research experience is strongly recommended for students planning graduate study. Students interested in taking Chemistry BC 3599 should consult with individual faculty members about the research problems currently being investigated.

Biochemistry

Courses required for the biochemistry major are:

Chemistry BC 1601	<i>General Chemistry I</i>
Chemistry BC 3328, 3230	<i>Organic Chemistry I with Laboratory</i>
Chemistry BC 3231	<i>Organic Chemistry II</i>
Chemistry BC 3333	<i>Modern Techniques of Organic Chemistry Laboratory</i>
Chemistry BC 3338	<i>Quantitative and Instrumental Techniques Laboratory</i>
Chemistry BC 3252	<i>Introduction to Thermodynamics and Kinetics</i>
Chemistry BC 3253	<i>Structure, Bonding, and Spectroscopy</i>
Chemistry BC 3254	<i>Methods and Applications in Physical Chemistry</i>
Mathematics	<i>Calculus I and II in any sequence (S, A, or honors)</i>
Physics BC 1206, 1207	<i>Calculus-based Physics with Laboratory or</i>
V 1103, 1104 or C 1406 with W 1906, C 1407 with W 1907	
Biology BC 2001, 2002, 2003	<i>General Biology with Laboratory</i>
Biology-Chemistry C 3501	<i>Biochemistry I</i>
Biology-Chemistry C 3512	
or Biology BC 3302x	<i>Molecular Biology</i>
Chemistry BC 3355	<i>Biochemistry Laboratory Techniques</i>

A 3-point elective course from a list of approved Biology and Chemistry courses.

A list of major requirements, including the courses from which the advanced laboratory and lecture electives are to be selected, and information about the major examination may be obtained from any member of the department.

REQUIREMENTS FOR THE MINOR

Courses required for the Chemistry minor are: Chemistry BC 1601, BC 3328, BC 3230, BC 3231, BC 3333, BC 3338, and BC 3232 or BC 3252. There is no minor in Biochemistry.

COURSES OF INSTRUCTION

CHE BC 1601x **General Chemistry I**

Particulate nature of matter in various states; chemical transformations, especially of ionic substances; properties of gases; solutions; equilibrium; acid-base, precipitation, and oxidation-reduction reactions; thermochemistry; laboratory experience with both qualitative and quantitative techniques. —L. Lessinger, S. Chapman, O. Jebejian and associates

Prerequisite: Algebra (Math SAT score of 550 for entering students). Enrollment limited.

5 points. Lecture Tu Th 9:10-10:25

Recitation one afternoon M T W Th or F 1:10-2:00.

Laboratory same afternoon as recitation M Tu W Th or F 2:00-5:00. Lecture and lab must be taken together unless permission of the instructor is given at the time of program filing. Laboratory fee \$28.

CHE BC 1602y **General Chemistry II**

Kinetics and mechanisms of chemical reactions; nuclear chemistry and radioactivity; atomic and molecular structure; selected topics in environmental chemistry, organic chemistry, and biochemistry. —E. Megehee

Prerequisite: BC 1601 or permission of the instructor. Students who have completed BC 3230 or its equivalent may not subsequently receive credit toward the degree for BC 1602. Primarily for majors in fields other than science.

5 points. Lecture Tu Th 9:10-10:25

Recitation one afternoon M or W 1:10-2:00

Laboratory same afternoon as recitation M or W 2:00-5:00. Laboratory fee \$28.

CHE BC 1702y **General Chemistry II Laboratory**

Laboratory portion of Chemistry BC 1602.

Prerequisite: General Chemistry I with laboratory.

Corequisite: General Chemistry II lectures and permission of the instructor.

2 points.

Recitation one afternoon M or W 1:10-2:00

Laboratory same afternoon as recitation M or W 2:00-5:00. Laboratory fee \$28.

CHE BC 3328y **Introductory Organic Chemistry Laboratory**

Basic techniques of experimental organic chemistry. Principles and methods of separation, purification, and characterization of organic compounds and techniques of compound preparation. —J. Carter and associates

Prerequisite: BC 1601 or equivalent with grade of C- or better, or BC 1601 and BC 1602 or equivalent.

Corequisite: BC 3230 or equivalent.

2.5 points. Lecture one afternoon M Tu W Th or F 1:00-1:50. Laboratory same afternoon as lecture M Tu W Th or F 1:50-5:30. Laboratory fee \$35.

CHE BC 3230y **Organic Chemistry I**

Atomic and molecular structure; an introduction to aliphatic and aromatic chemistry with emphasis on modern theories; basic organic reaction mechanisms, stereochemistry, and spectroscopy.

—M. Rao

Prerequisite: BC 1601 or equivalent with a grade of C- or better, or BC 1601 and BC 1602 or equivalent. Credit will not be given for any course below the 3000 level after completing Chemistry BC 3230 or its equivalent.

3 points. Lecture Tu Th 9:10-10:25

Problem section F 12:00

CHE BC 3231x **Organic Chemistry II**

Continued treatment of the topics of Organic Chemistry I with extensions and an introduction to biological compounds and bio-macromolecules. —M. Pagnotta

Prerequisite: BC 3230.

3 points. M W F 10:00-10:50

Problem section Tu 12:00

CHE BC 3232y **Intermediate General Chemistry**

Selected aspects of general chemistry, primarily for premedical and biological science students without the background for Chemistry BC 3252. Thermochemistry, chemical equilibrium, chemical kinetics, complex ions and coordination compounds, and nuclear chemistry, with applications to analytical chemistry and biochemistry. —S. Chapman

Prerequisites: BC 1601 and Organic Chemistry I. BC 3230 may be taken as a corequisite with permission of the instructor. Optional parallel laboratory work: BC 3338. Course C 1404 is not an acceptable equivalent for BC 3232.

3 points. M W F 10:00-10:50

CHE BC 3333x **Modern Techniques of Organic Chemistry Laboratory**

Introduction to qualitative and quantitative organic analysis and to advanced techniques,

emphasizing instrumental and chromatographic methods. —M. Pagnotta
Prerequisites: BC 3328 and BC 3230. *Corequisite:* BC 3231. Enrollment limited.
 3 points. Lecture Th 1:10-2:00
 Laboratory one afternoon Tu 1:10-5:30 or Th 2:10-6:30 or F 12:10-4:30. Laboratory fee \$35.

CHE BC 3335x
Modern Techniques of Organic Chemistry Laboratory

Identical with BC 3333, but with a library problem, a short project, and additional preparative experiments. —M. Pagnotta
Prerequisites: BC 3328 and BC 3230. *Corequisite:* BC 3231. Enrollment limited.
 5 points. Lecture Th 1:10-2:00
 Laboratory two afternoons Tu 1:10-5:30, Th 2:10-6:30. Laboratory fee \$35.

CHE BC 3337x
Modern Techniques of Organic Chemistry Laboratory

Prerequisite: BC 3333x.
 2 points.
 Laboratory one afternoon. Tu 1:10-5:30 or Th 2:10-6:30 or F 12:10-4:30
 CHE BC 3333x + 3337x = 3335x.

CHE BC 3338y
Quantitative and Instrumental Techniques Laboratory

Quantitative techniques in volumetric analysis, radiochemistry, spectrophotometry, and pH measurement. Biochemical applications are included and some experience with computers is provided. —S. Weinstock and O. Jebejian
Corequisite for students not majoring in chemistry or biochemistry: BC 3232 or BC 3252.
 3 points. Lecture Tu 1:10-2:00
 Laboratory Tu 2:10-6:00 or Th 1:10-5:00
 Laboratory fee \$35.

CHE BC 3340y
Quantitative and Instrumental Techniques Laboratory

Identical with BC 3338, but with a greater variety and number of experiments. —S. Weinstock and O. Jebejian
Corequisite for students not majoring in chemistry or biochemistry: BC 3232 or BC 3252.
 5 points. Lecture Tu 1:10-2:00
 Laboratory two afternoons Tu 2:10-6:00 and Th 1:10-5:00. Laboratory fee \$35.

CHE BC 3342y
Quantitative and Instrumental Techniques Laboratory

Prerequisite: BC 3338y.
 2 points.
 Laboratory one afternoon. Tu 2:10-6:00 or Th 1:10-5:00

Note: CHE BC 3338y + 3342y = 3340y

CHE BC 3252y
Introduction to Thermodynamics and Kinetics

Thermodynamics: introduction to the laws; application primarily to ideal systems. Free energy and equilibrium. Kinetics: rate laws and mechanisms, experimental techniques. —D. Robie
Prerequisites: CHE BC 3231 and Calculus II. CHE 3338 or 3340 should be taken previously or concurrently.
 4 points. Lecture M W F 10:00-10:50, F 12:00-12:50

CHE BC 3253x
Structure, Bonding, and Spectroscopy

Elementary quantum chemistry: exact solutions to the Schrödinger equation. The structure of atoms and molecules. Energy levels and spectra. —E. Megehee
Prerequisites: CHE BC 3252, Calculus II, and Physics I (BC 1206, V1103, or C 1406).
 4 points. Lecture M W F 11:00-11:50, Th 12:00-12:50

CHE BC 3254y
Methods and Applications in Physical Chemistry

Radiochemistry. Applications of thermodynamics to real systems; activities, electrochemistry. Macromolecules. Transport properties. The kinetic theory of gases. Elementary statistical thermodynamics. —S. Chapman
Prerequisites: CHE BC 3253, Calculus II, and Physics II (BC 1207, V1104, or C 1407).
 4 points. Lecture M W F 11:00-11:50, M 12:00-12:50

CHE BC 3355y
Biochemistry Laboratory Techniques

Experience with fundamental techniques used in the isolation, characterization, and study of biomolecules. Techniques employed include homogenization, centrifugation, solvent extraction, salt fractionation, chromatography, electrophoresis, chemical and enzymic assays, enzyme kinetics, and simple genetic cell transformation methods. —S. Weinstock.
Prerequisites: BC 3231, or one year of Organic Chemistry, BIO BC 2001, BC 2002, or equivalent, a

total of four semesters of chemistry and biology laboratory, and Biology-Chemistry C 3501 or Biochemistry G 4021.
5 points. Lecture Tu 1:10-2:00
Laboratory Tu 2:10-6:00 and Th 1:10-5:00
Laboratory fee \$45.

CHE 3357y

Biochemistry Laboratory Techniques

Identical to BC 3355, but experiments are modified to be accomplished in one laboratory period per week. This course may be of particular interest to biology and chemistry majors. —S. Weinstock
Prerequisites: Same as BC 3355.
3 points. Lecture Tu 1:10-2:00
Laboratory Tu 2:10-6:00 or Th 1:10-5:00
Laboratory fee \$35.

CHE BC 3365x

Advanced Chemistry Laboratory

Experiments in kinetics, thermodynamics, and electrochemistry using instrumental methods; preparation and characterization of inorganic compounds; some computer applications.—D. Robie
Prerequisites: BC 3252 and BC 3338 or equivalent.
3 points. Lecture Tu 12:00-12:50
Laboratory W 1:10-5:00, and if enrollment requires, M 1:10-5:00. Laboratory fee \$35.

CHE BC 3368y

Advanced Chemistry Laboratory

Experiments in various types of spectroscopy.
—E. Megehee
Prerequisites: identical to BC 3365.
3 points. Lecture Tu 12:00-12:50
Laboratory W 1:10-5:00

CHE C 3071y

Introduction to Inorganic Chemistry

Principles governing the structure and reactivity of inorganic compounds surveyed from experimental and theoretical viewpoints. Topics include inorganic solids, aqueous and nonaqueous solutions, the chemistry of selected main group elements, transition metal chemistry, metal clusters, metal carbonyls, and organometallic chemistry. —G. Parkin
Prerequisite: Organic Chemistry II.
3 points. Tu Th 9:10-10:25

CHE BC 3598x, 3598y

External Problems in Chemistry

Advanced individual research projects at other institutions. —Staff
Prerequisites: Completion of laboratory courses BC 3333 and BC 3338. Mandatory pass/fail grading. Permission of the instructor (a Barnard professor who will act as liaison) is required.
4 points.

CHE BC 3599x, 3599y

Problems in Chemistry

Advanced individual research projects at Barnard. —Staff
Prerequisites: Completion of laboratory courses BC 3333 and BC 3338. Permission of the instructor required.
4 points. Eight hours by arrangement.
Laboratory fee \$35.

CHE BC 3901x-3902y

Senior Honors Thesis

Guided research in Chemistry or Biochemistry, under the sponsorship of a member of the department, leading to the senior thesis. Weekly seminar. —Staff
Enrollment restricted to seniors, by invitation of the department.
4 points. F 2:00-2:50 and 8 hours research to be arranged.

SUMMER RESEARCH

There are available a number of fellowships for summer research within the department. Individual members of the department should be consulted, early in the spring semester, about the availability of projects.

OTHER COURSES

Attention is called to the following courses offered elsewhere in the University. All require at least four semesters of chemistry as prerequisites.

Biology-Chemistry BCH C 3501x Biochemistry I

—T. Melese and J. Field
4 points. M W F 10:00-10:50

Biology-Chemistry BCH C 3512y Biochemistry II

—C. Prives and J. Manley
3 points. Tu Th 9:10-10:25.

Chemistry CHE G 4103x Advanced Inorganic Chemistry I

—G. Parkin
4.5 points. Tu Th 10:35-11:50

Chemistry CHE G 4131x

Introductory Quantum Chemistry.
—G. Flynn
4.5 points. Tu Th 9:10-10:25

Chemistry CHE G 4147x Advanced Organic Chemistry

—T. Katz and C. Doubleday
4.5 points. M W F 11:00-11:50

Chemistry CHE G 4141y

Organic Spectroscopy

—K. Nakanishi and A. McDermott

4.5 points. Tu Th 10:35-11:50

Chemistry CHE G 4170x

Biophysical Chemistry

—A. McDermott

4.5 points. M W F 9:00-9:50

Chemistry CHE G 4172y

Bio-Organic Topics

—K. Nakanishi

4.5 points. Tu Th 10:35-11:50

Chemistry CHE G 4221x

Quantum Chemistry I

—R. Friesner

4.5 points. M W F 12:00-12:50

Chemistry CHE G 4230x

Statistical Thermodynamics

—B. Berne

4.5 points. Tu Th 9:10-10:25

Professors: Helene P. Foley (Chair), Lydia H. Lenaghan

Assistant Professor: Dirk Obbink²

Other officers of the University offering courses in Classics:

Professors: Roger S. Bagnall, Alan D. E. Cameron, James R. Coulter, Suzanne Said, Leonardo Tarán¹, James E. G. Zetzel²

Associate Professors: Darice E. Birge, Laura M. Slatkin

Assistant Professors: Maura Lafferty, Mark J. Petrini, James B. Rives, Gareth D. Williams

Lecturer: Karen van Dyck¹

¹Absent on leave 1992-93

²Absent on leave Spring Term

The objectives of the department are to provide students with a knowledge of the language and an understanding of the literature and civilization of the ancient Greeks and Romans. The close cooperation of Barnard and Columbia in planning and implementing the curriculum offers students a wide range of specialties from which to construct a sound and coherent program of studies according to their individual interests. All members of the Barnard department are available as advisers and should be consulted as early as possible in the planning of a major program.

Students may fulfill the foreign language requirement in Greek by completing Greek V 1201 and V 1202, or in Latin by completing Latin V 1201 and V 1202, or by completing one semester of study above Greek V 1201 and V 1202 or Latin V 1201 and V 1202, or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin.

The Classics Department is the beneficiary of the Matthew Alan Kramer Fund whose principal purpose is the support of the production of plays in Ancient Greek and Latin. In recent years students of the department have produced *Antigone*, *Medea*, *Alcestis*, *Persians*, *Eumenides*, *Cyclops*, *Electra*, *Clouds*, *Trojan Women*, *Rudens* and *Helen* which have proved not only satisfying in themselves, but have provided an exciting and different learning experience for the participants.

Barnard College participates in the program of the Intercollegiate Center for Classical Studies in Rome. Majors in Classics or Ancient Studies are eligible to apply for admission to the program of the Rome Center for one semester, preferably in the junior year. Courses taken at the Rome Center may be used in the major and, in some cases, may be used to satisfy distribution requirements. Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open without fee to graduates of the College.

REQUIREMENTS FOR THE MAJOR IN GREEK, LATIN, AND GREEK AND LATIN

The major in Greek or Latin requires a minimum of eight courses above the elementary level.

In Greek, this would be fulfilled by taking

Greek W 4139

Elements of Greek Prose Style

Greek W 4105-W 4106

History of Greek Literature

and five others.

In Latin, this would be fulfilled by taking

Latin W 4139

Elements of Latin Prose Style

Latin W 4105-W 4106.
and five others.

History of Latin Literature

In addition two semesters of ancient history appropriate to the major are required. For one of these, however, a relevant course in ancient art, classical civilization or literature, ancient philosophy, or religion may be substituted.

Majors in Latin, especially those who have begun their study in high school, are strongly advised to take at least two semesters of Greek.

A student may elect to major in both Greek and Latin by completing the major requirements in one language and five courses above the elementary level in the other.

Note: For the requirements for the major in Ancient Studies, see Ancient Studies.

REQUIREMENTS FOR THE MINOR

The minor in Greek or Latin requires five courses above the elementary level.

COURSES OF INSTRUCTION

CLASSICS IN TRANSLATION

There are no prerequisites for the Classical Literature or Classical Civilization courses unless specially noted.

Classical Literature CLL V 3132x **Classical Myth**

Survey of major myths from the ancient Near East to the advent of Christianity, with emphasis upon the content and treatment of myths in classical authors (Homer, Hesiod, Aeschylus, Euripides, Sophocles, Vergil, Livy, Ovid). —D. Birge
3 points. M W 1:10-2:25

H

Classical Literature CLL V 3123y **Greek Drama and Its Influences**

Evolution of various types of tragedy and comedy from the 5th century B.C.E. in Athens to the 1st century C.E. in Rome: relation of these forms to later European dramatic forms; theories of comedy and tragedy including those of Aristotle; the production of plays. —L. Slatkin
3 points. Tu Th 1:10-2:25

H

Classical Literature CLL V 3135y **The Ancient Novel**

The evolution of the Greek and Roman novel and its place within the literary canon; particular attention to principles of narrative and the ideological function of prose fiction. Pretronus, Apuleius, Lucian, Heliodorus, Achilles Tatius, Longus; Acts of the Apostles, and saints' lives.
3 points. Not offered in 1992-93.

H

Classical Literature CLL W 4320y **Myth and Ritual**

Survey of classical myths and methods of approaching myth as means of cultural analysis,

through the application of anthropology, psychology, ethology, and gender studies to the study of myth and ritual. Use of comparisons from non-western cultures for the origins, organization, and transformation of myth and ritual. —D. Obbink
Prerequisite: CLL 3132 or permission of the instructor.
3 points. Not offered in 1992-93.

H

Classical Literature CLL W 4300x **The Classical Tradition**

Social, political, intellectual, and religious contexts in which epic, lyric, tragic and comic poetry originally developed in Greece; Roman adaptations and their influence on modern authors. —M. Petrini
3 points. M W 6:10-7:25

H

Classical Literature CLL W 4100y **The Reception of Antiquity**

An introduction to the heritage of classical antiquity, primarily Greece, in later European culture. Topics to be considered will include translation, iconography, the history of classical scholarship, architectural and artistic manifestations of the classical tradition, Greek tragedy on stage and on film, the images of Athens and Sparta.

—S. Said

3 points. M W 6:10-7:25

H

Classical Civilization CLC V 3158y **Women in Antiquity**

Role of women in ancient Greek and Latin literature; portrayal of women in literature as compared with their actual social status; male and female in ancient Mediterranean cosmologies; readings from ancient epic, lyric, drama, history and historical documents, medical texts, oratory and philosophy as well as contemporary sociological and anthropo-

logical works which will help to analyze the origins of the Western attitude towards women. —H. Foley
3 points. Tu Th 11:00-12:15 H

Classical Civilization CLC V 3162x
Ancient Law

Greek and Roman legal systems; archaic law in its social context; philosophy of law; development of private law in Rome. —J. Zetzel
3 points. M W 9:10-10:25 S

Classical Civilization CLC V 3164y
The Emperor Nero and the Roman World

The literature and society of Rome in the early Empire, focusing on the reign of Nero. Emphasis is on the literary texts read in translation, including Tacitus, Seneca, Petronius, and Juvenal. Topics discussed will include accounts of daily life, political propaganda, and the stoic opposition.
3 points. Not offered in 1992-93.

Classical Civilization CLC V 3175x
The World of Late Antiquity

The social, economic and religious history of the Roman world from the second to the early seventh century A.D. —A. Cameron
3 points. Not offered in 1992-93.

Classical Civilization CLC V 3160y
The Age of Augustus

An exploration of the interplay between literature and its context, political, social, and intellectual. Literary texts to be discussed will include Vergil, Horace, Livy, and Ovid. Topics to be considered (in addition to the works themselves) will include literary patronage and the status of the poet, the Augustan moral and religious revival, political propaganda, and political opposition. —J. Zetzel
3 points. Not offered in 1992-93.

Classical Civilization CLC V 3145y
Cities and Sanctuaries in Ancient Greece

The development, major elements, and noteworthy peculiarities of Greek cities and sanctuaries. Emphasis will be on individual monuments and the arrangement of sites and their political, social, and religious functions throughout the Greek world from the rise of city-states through the formation of the Roman provinces. —D. Birge
3 points. Not offered in 1992-93.

Classical Civilization CLC V 3250y
Religions in the Roman Empire

Survey of the religious practices and institutions of the Roman Empire, 50 B.C.E. to 325 C.E., with special consideration of modern approaches to the material. —J. Rives
3 points. Not offered in 1992-93.

Ancient Studies ANC W 4000x
Introduction to Ancient Studies

This seminar is an introduction to the interdisciplinary study of the ancient world; the topic will vary from year to year. In 1992-93 the topic will be the society, government and culture of late antiquity (ca. 275-563 C.E.). Required of students entering the MALS Program in Ancient Studies and open to other graduate and undergraduate students with permission of the instructor. —R. Bagnall
3 points. W 6:10-8:00

GREEK LANGUAGE AND LITERATURE

GRE V 1101x-V 1102y
Elementary Full-Year Course

Grammar, composition, and reading. In Greek 1102 a dialogue of Plato, generally the *Apology*, will be read.

1101 is prerequisite to 1102. No credit is given for 1101 unless 1102 is completed.

4 points.

x: Sec. 1 M W F 11:00-12:15 —L. Slatkin

Sec. 2 M W F 6:10-7:25

y: M W F 11:00-12:15

GRE V 1121x, y
Intensive Elementary Course

This course is designed to cover all of Greek grammar and syntax in one semester in order to prepare the student to enter third semester Greek. —Staff

4 points. M W F 9:10-10:25

GRE V 1201x
Greek Literature: Prose and Poetry

Selections from Lysias and early elegiac and lyric poetry. There will be weekly assignments to review forms and syntax. —L. Slatkin

Prerequisite: V 1101-V 1102 or V 1121.

4 points. M W 1:10-2:25, F 1:10-2:00 H

GRE V 1202y
Selections from Homer

Detailed grammatical and literary study of several books of the *Iliad* or *Odyssey*, and introduction to the techniques of oral poetry, to the Homeric hexameter, and to the historical background of Homer. —M. Petrini

Prerequisite: V 1101-V 1102 or V 1121, or permission of the instructor.

4 points. M W 11:00-12:15, F 11:00-11:50 H

GRE V 1203x
New Testament

Selections from the New Testament. —M. Lafferty
Prerequisite: V 1101-V 1102 or V 1121.

4 points. M W 10:35-11:50, F 11:00-11:50 H

GRE V 1221y**Intensive Intermediate Greek**

Covers the content of Greek V 1201 and 1202 in one term. Readings from Lysias, early elegiac and lyric poetry, and the *Iliad*. —J. Coulter

Prerequisite: V 1101-V 1102, or V 1121.

4 points. M W F 9:10-10:25

H

GRE V 3305x**Tragedy**

Prerequisites: V 1201, 1202, or their equivalents.

Alternate years.

3 points. Not offered in 1992-93.

H

GRE V 3306y**Historians**

Selections from Herodotus' *Histories*, with attention to literary and historiographic matters. —D. Birge

Prerequisites: V 1201, 1202, or their equivalents.

Alternate years.

3 points. M W 9:10-10:25

H

GRE V 3307y**Comedy**

—H. Foley

Prerequisites: V 1201, 1202 or their equivalents. 3

points. Not offered in 1992-93.

H

GRE V 3308x**Philosophy**

Detailed reading of Plato's *Protagoras*, with attention to literary and philosophical aspects.

—J. Coulter

Prerequisites: V 1201, 1202, or their equivalents.

Alternate years. 3 points. Tu Th 10:35-11:50

H

GRE V 3309x**Selections from Greek Literature, I**

Content of course changes each year, it may be taken in consecutive years.

Prerequisites: V 1201, 1202, or their equivalents.

3 points. Not offered in 1992-93.

H

GRE V 3310y**Selections from Greek Literature, II**

Content of course changes each year, it may be taken in consecutive years.

Prerequisites: V 1201, 1202, or their equivalents.

3 points. Not offered in 1992-93.

H

GRE V 3997x, GRE V 3997y**Directed Reading**

To be tested by a series of short papers, one long paper, or an oral or written examination. —Staff

Permission of the chairman of the department required.

3 points. Hours to be arranged.

GRE V 3998x, GRE V 3998y**Supervised Research in Greek Literature**

Program of research in Greek literature, with the composition of a paper embodying results.

—Staff

Permission of the chairman of the department required.

3 points. Hours to be arranged.

Greek W 4006y**Greek Historians**

Prerequisites: V 1201, 1202, or their equivalents.

3 points. Not offered in 1992-93.

H

GRE W 4009y**Selections from Greek Literature: Poetry**

Content of course changes each year; it may be taken in consecutive years. Topic for 1992-93:

Greek tragedy. Close reading of Sophocles' *Antigone* and *Electra*. —L. Slatkin

Prerequisites: V 1201, 1202, or their equivalents.

3 points. Tu Th 2:40-3:55

H

GRE W 4010x**Selections from Greek Literature: Poetry**

Content of course changes each year; it may be taken in consecutive years. Topic for 1992-93:

Aristophanes' *Birds* and excerpts from *Acharnians*, *Peace*, and *Ecclesiazusae*. A study of old comic visions of escape from political and social realities. —J. Coulter

Prerequisites: V 1201, 1202, or their equivalents.

3 points. Tu Th 2:40-3:55

H

GRE W 4105x-GRE 4106y**History of Greek Literature**

Lectures based on extensive readings in Greek literature from Homer to the fourth century C.E.

—x: H. Foley; y: S. Saïd

Prerequisite: At least two terms of Greek beyond V 1201, V 1202.

4 points. M 4:10-6:00, W 4:10-5:00

H

GRE W 4139x**Elements of Greek Prose Style**

Intensive review of Greek syntax. Writing of sentences and connected passages in Greek.

—D. Obbink

Prerequisite: At least four terms of Greek or equivalent.

3 points. Tu Th 9:10-10:25

LATIN LANGUAGE AND LITERATURE**LAT V 1101x-1102y; 1102x, 1101y****Elementary Full-Year Course**

V 1101: Grammar, composition and reading. V

1102: Complete review of grammar and syntax; emphasis on representative readings.—Staff

V 1101 is normally prerequisite to V 1102. V 1102 may be taken without V 1101 by permission of the instructor. No credit is given for V 1101 until V 1102 is completed.

4 points.

V 1101x	Sec. 1 M W F 11:00-12:15
	Sec. 2 M W F 9:10-10:25
	Sec. 3 M W F 6:10-7:25V 1102x
V 1102x	Sec. 1 M W F 11:00-12:15
	Sec. 2 M W F 6:10-7:25
V 1101y	Sec. 1 M W F 11:00-12:15
	Sec. 2 M W F 6:10-7:25
V 1102y	Sec. 1 M W F 11:00-12:15
	Sec. 2 M W F 9:10-10:25
	Sec. 3 M W F 6:10-7:25

LAT V 1121x, y

Intensive Elementary Course

This course is designed to cover all of Latin grammar and syntax in one semester in order to prepare the student to enter third semester Latin.

—Staff

4 points. M W F 11:00-12:15

LAT V 1201x, y

Latin Literature: Prose

Selections from Cicero or Sallust.

Prerequisite: V 1101-V 1102 or 2-3 years high school Latin.

4 points.

x: Sec. 1 M W 9:10-10:25; F 9:10-10:00 —G. Williams

H

Sec. 2 M W 6:10-7:25; F 6:10-7:00

y: M W 9:10-10:25, F 9:10-10:00 —A. Cameron

LAT V 1202x, y

Latin Literature: Poetry

Selections from Vergil, Aeneid, or Ovid, Metamorphoses.

Prerequisite: V 1101-V 1102 or 2-3 years high school Latin.

4 points.

x: Sec. 1 M W 1:10-2:25, F 1:10-2:00 —A. Cameron

H

Sec. 2 M W 11:00-12:15, F 11:00-11:50 —D. Birge

y: Sec. 1 M W 9:10-10:25; F 9:10-10:00 —M. Lafferty

Sec. 2 M W 1:10-2:25; F 1:10-2:00

LAT V 3012x

Lyric Poetry

Selections from Catullus' polymetric poems and epigrams and from Horace's Odes and Epodes.

The course combines literary analysis with work in grammar and metrics. —G. Williams.

Prerequisite: V 1201, 1202 or four years of high school Latin.

3 points. M W 2:40-3:55

H

LAT V 3033y

Medieval Literature

Survey of representative late Latin and medieval texts; readings from the Vulgate, the Church Fathers, sacred and secular lyric, history, romance, satire, and biography; practice in paleography. —M. Lafferty

Prerequisite: Three semesters of college Latin or permission of the instructor.

3 points. M W 1:10-2:25

H

LAT W 4152x

Medieval Latin

A survey of Latin prose of late Antiquity and the Middle Ages. Among the authors studied will be Augustine, Cassiodorus, Bede, Einhard, John of Salisbury, Bonaventure. —M. Lafferty

Prerequisite: Course V 3012 or the equivalent.

3 points. M W 4:10-5:25

H

LAT V 3305x

Historians

Prerequisite: Course V 3012 or the equivalent.

Alternate years.

3 points. Not offered in 1992-93.

H

LAT V 3306x

Roman Satire

Readings from Horace and Juvenal.

Prerequisite: V 3012 or the equivalent. Alternate years.

3 points. Not offered in 1992-93.

H

LAT V 3307y

Elegiac Poetry

Selected readings from Tibullus, Propertius, and Ovid.

Prerequisite: V 3012 or the equivalent. Alternate years.

3 points. Not offered in 1992-93.

H

LAT V 3308x

Philosophy

Reading of Lucretius' *De rerum natura* with special consideration of early Latin hexameter poetry, Roman intellectual history, and atomist tradition on particle physics, poetry, love, death, psychology, and anthropology. —L. Lenaghan

Prerequisite: V 3012 or the equivalent. Alternate years.

3 points. M W 1:10-2:25

H

LAT V 3309y

Selections from Latin Literature, I

Content of course changes from year to year; it may be taken for credit in consecutive years.

Prerequisite: V 3012 or the equivalent.

3 points. Not offered in 1992-93.

H

LAT V 3310y

Selections from Latin Literature, II

Content of course changes from year to year; it may be taken for credit in consecutive years.

Topic for 1992-93: Vergil's *Eclogues* and

Georgics.—M. Petrini

Prerequisite: V 3012 or the equivalent.

3 points. M W 1:10-2:25

H

LAT W 4008y

Cicero

An introduction to the range of Ciceronian public writings and to the social and intellectual context in which they were composed. Selections from all the major genres of his works. —J. Zetzel

Prerequisite: V 3012 or the equivalent.

3 points. Not offered in 1992-93.

H

LAT W 4009x

Selections from Latin Literature: Prose

Content of course changes each year; it may be taken in consecutive years. Topic for 1992-93:

Readings in Petronius' *Satyricon* and Apuleius' *Golden Ass* and selections from other examples of the Roman novel. —A. Cameron

Prerequisite: V 3012 or the equivalent.

3 points. M W 9:10-10:25

H

LAT W 4010y

Selections from Latin Literature: Prose

Content of course changes each year; it may be taken in consecutive years. Topic for 1992-93:

Selections from Tacitus, with attention to his literary style and his role in Greco-Roman historiography. —J. Rives

Prerequisite: V 3012 or the equivalent.

3 points. Tu Th 1:10-2:25

H

LAT V 3997x, y

Directed Reading

To be tested by a series of short papers, one long paper, or an oral or written examination.—Staff

Permission of the chairman of the department required.

3 points. Hours to be arranged.

LAT V 3998x, y

Supervised Research in Latin Literature

A program of research in Latin literature with the composition of a paper embodying results. —Staff

Permission of the chairman of the department required.

3 points. Hours to be arranged.

LAT W 4105x, 4106y

History of Latin Literature

Lectures based on extensive readings in Latin literature from the beginning to the fourth century C.E.—x: M. Petrini, y: L. Lenaghan

Prerequisite: At least two terms of Latin beyond V 3012.
4 points. M 2:10-4:00, W 2:10-3:00

H

LAT W 4139y

Elements of Latin Prose Style

Intensive review of Latin syntax. Writing of sentences and connected passages in Latin. —J. Rives.

Prerequisite: At least four terms of Latin or the equivalent.

3 points. Tu Th 10:35-11:50

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman and the major adviser. The courses are described in the Bulletin of the Graduate School of Arts and Sciences.

MODERN GREEK LANGUAGE AND LITERATURE

MGR V 1101x-V 1102y

Elementary Full-Year Course

Introduction to Demotic Greek; emphasis on both speaking and writing; basic grammar and syntax; pattern practice reinforced by laboratory attendance; easy reading. Instructor to be announced.

No credit is given for V 1101 until V 1102 is completed.

4 points. Tu Th 4:10-6:00

MGR V 1201x

Intermediate Course, I

Study of more complex and idiomatic Greek through a variety of readings, including selections from Kazantzakis' *Report to Greco* and short stories by Myrivilis and Venezis; grammar and syntax review; conversation; short weekly compositions. —Instructor to be announced.

Prerequisite: V 1101-V 1102 or the equivalent.

4 points. Tu Th 1:10-2:25

MGR V 1202y

Intermediate Course, II

Selected readings from modern Greek literature, both poetry and prose, annotated and presented in order of difficulty, used as a basis for discussion and composition. Poems by Solomos, Palamas, Cavafy, Seferis; short stories and essays by Theotokas, Terzakis and others. The improvement of the student's language skills is still a primary goal.—Instructor to be announced.

Prerequisite: V 1201 or permission of the instructor.

4 points. Tu Th 1:10-2:25

H

MGR V 3310x
Poetry, Parody, and Politics

Literary texts connected to the military dictatorship of 1967-74, with emphasis on the use and functions of parody. Readings include speeches, resistance songs, poetry of Ritsos, Seferis, and Sinopoulos as well as fiction and newspaper articles. —Instructor to be announced.
Prerequisite: V 1202 or permission of the instructor.
3 points. Tu Th 10:35-11:50. H

MGR V 3100y
Myth, History, and the Modern Greek Novel

Analysis of the way Modern Greek writers have reworked myth and the classical tradition in prose. Particular attention to the importance of myth and history in the construction of the Greek novel. Authors include Roidis, Papdiamandis, Myrivilis, Kazantzakis, and Galanaki. —Instructor to be announced.
Prerequisite: MGR V 1202 or relative fluency in Modern Greek.
3 points. Tu Th 10:35-11:50 H

University Professor Emeritus: Samuel Eilenberg, Theodore R. Bashkow

Professors: Zvi Galil (Chair), Jonathan L. Gross, Mischa Schwartz (Electrical Engineering), Thomas E. Stern (Electrical Engineering), Joseph F. Traub, Stephen H. Unger, Omar Wing (Electrical Engineering), Henryk Wozniakowski

Associate Professors: Peter K. Allen, Terrance E. Boulton, Steven K. Feiner, Gail E. Kaiser (Program Consultant), John R. Kender, Gerald Q. Maguire Jr., Kathleen R. McKeown, Calton Pu (Program Consultant), Salvatore J. Stolfo, Yechiam Yemini

Assistant Professors: Daniel J. Duchamp, Diane J. Litman, Shree Nayar

Senior Lecturer: Newcomb Greenleaf

Lecturers: Athanasios Tsantilas

Adjunct Professor: Bruce Gilchrist

Adjunct Lecturers: David Bantz, Jerrold Leichter, Alexander Pasik, Ajit Singh, C. J. Tan, Alexander Thomassian, Joseph Weiss, George Wolberg, Michael van Biema

The spectrum of computer science ranges from the analysis of problems in a great variety of applications to the design of the machines that effect the solutions, and it includes all the linking steps between them. Computer scientists are interested not only in mathematics and engineering, but also in the sources of the problems, wherever they lie. Thus, although most recent graduates in Computer Science are now in computer science proper, either in industry or in graduate degree programs, many are in medical school, business school, or other such activities, planning to combine computer science with another strong interest in their careers.

The Computer Science curriculum has a double core, partially in areas with an immediate relationship to the computer, such as programming languages, compilers, operating systems, and computer architecture, and partially in theoretical computer science and mathematics. A broad range of upper-level courses is available in topics such as artificial intelligence, combinatorial methods, computational complexity and the analysis of algorithms, computer architecture and VLSI design, computer communications, computer graphics, computer vision, databases, distributed computing, expert systems, mathematical models for computation, natural language processing, programming environments, and robotics. Thus, students obtain the background to pursue their interests both in applications and in theoretical developments.

Academic computing needs are met by University computing facilities which include SUN and IBM mainframes and microcomputers. Qualified majors often serve as consultants at the Computer Center.

In addition to course work, students sometimes assist faculty members on research projects.

The department's research facilities include lab areas for robotics, computer vision, distributed computing, computer graphics, and parallel architecture research. The computer facilities consist of a Sun 4/280; an IBM 4381; six DEC VAX 11/750s; numerous HP, Sun, IBM, and Symbolics workstations; HP real-time 3D shaded graphics workstations; and many microcomputers and assorted peripheral devices, including laser printers, plotters, a color scanner, and a high resolution Matrix color film recorder. Most of the computing equipment connects to a departmental Ethernet which is gatewayed to a campus backbone network, as well as to INTERNET (through NYSERNET and BITNET) and USENET.

There are several different introductory courses in computer programming. Students may elect only one of them for degree credit. First year students considering a Computer Science major should take W 1007. By taking an introductory course early in their college

years, non-majors are able to use the computers more effectively in their upper-level studies in other departments.

The primary programming languages for the undergraduate majors are C and LISP, and students are expected to become bilingual at an early stage. The language for the introductory course (CS-W 1007) is the Scheme dialect of LISP. The primary language for CS-W 3137 is C, and students without a knowledge of C should take the accelerated section of the 1 point C course (CS-W 3101-02) concurrently. A thorough knowledge of C is required for CS-W 3152. A knowledge of LISP required for CS-W 4701.

NOTE: Students majoring or minoring in Computer Science should take Computer Science W 1007 and W 3137, rather than Computer Science W 1003 and W 3131. Students who have taken Computer Science W 1003 before Autumn 1989 or W 3131 before Autumn 1990 may still count these other courses toward a major or minor, or use them to satisfy the prerequisites of advanced courses.

REQUIREMENTS FOR THE MAJOR

Students who plan to major in Computer Science should see a Program Consultant by the start of the sophomore year.

A total of 15 courses are required for the major.

W 1007	<i>Introduction to Computer Programming D</i> (preferably in the first year)
Mathematics	<i>Calculus I and II</i> (preferably in the first year)
W 3137	<i>Data Structures B</i> (preferably in the sophomore year)
W 3152	<i>Software Design Laboratory</i> (preferably in the sophomore year)
W 3203	<i>Discrete Mathematics</i> (preferably in the sophomore year)
W 3232	<i>Fundamental Algorithms</i> (preferably in the sophomore year)
Mathematics V 1201	<i>Linear Algebra</i>
Stat-IEOR W 4150 or W 3261	<i>Introduction to Probability & Statistics</i> <i>Computability and Models of Computation</i>
W 3823.	<i>Digital Logic</i>
W 3824.	<i>Computer Organization, I</i>
W 4115.	<i>Programming Languages and Translators</i>
W 4701.	<i>Artificial Intelligence</i>

and an approved choice of two additional upper-level computer science courses.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor: Computer Science W 3203, W 3137, W 3232, W 3823, and one of the following: W 3824, W 4115, or W 4701.

COURSES OF INSTRUCTION

CSC W 1001x, y Introduction to Computer Programming, A Intended primarily for students in the Arts and Sciences divisions. General introduction to computer programming. Emphasis on learning to write programs to solve problems in familiar applications, such as payroll, computer-assisted instruction ecology, library science, literary text analysis, cryptology, and game playing. Rudiments of structured programming. Taught in the Scheme dialect of LISP.—N. Greenleaf 3 points. x: Tu Th 1:10-2:25 y: Hours to be arranged.	
--	--

CSC W 1003x, y**Introduction to Computer Programming, B**

Intended primarily for engineering students.
General introduction to computer programming.
Structured program design. Pascal.
—Instructor to be announced.

3 points. x: M W 6:10-7:25

y: Hours to be arranged.

CSC W 1005x, y**Introduction to Computer Programming, C**

Intended primarily for engineering students.
General introduction to computer programming,
with engineering applications. Structured pro-
gram design. FORTRAN. —L. Lidofsky

3 points. M W 11:00-12:15

CSC W 1007x, y**Introduction to Computer Programming, D**

An honors-level introduction to computing,
intended primarily for students considering a major
in computer science. The structure and interpreta-
tion of computer programs. Building abstractions
with data and procedures. Taught in the Scheme
dialect of LISP (no previous knowledge of LISP
assumed). —Instructors to be announced.

3 points. x: Tu Th 6:10-7:25

y: Hours to be arranged.

CSC W 3101x,y**Programming Languages**

Introduction to a programming language. Each
section is devoted to a specific language. Intended
only for those who are already fluent in at least one
programming language. Sections may meet for one
hour per week for the whole semester or of three
hours per week for the first third of the semester.
May be repeated for credit if different languages
are involved. —Instructors to be announced.

1 point. Sec. 1 (C) Tu 6:10-7:25

Sec. 2 (C) (5 weeks only) Tu Th 6:10-7:25

Sec. 3 (LISP) Th 6:10-7:00

CSC W 3107x,y**Structure and Interpretation
of Computer Programs**

Structure and interpretation of computer pro-
grams. Building evaluators and compilers for
LISP expressions. Designing register machines.
Garbage collecting. Logic programming and
query systems. —Instructor to be announced.
Prerequisite: W 1007.

3 points. Hours to be arranged.

CSC W 3131x, y**Data Structures, A**

Data types and structure: arrays, stacks, singly and
doubly linked lists, queues, trees, sets, and
graphs; programming techniques for processing
such structures; recursive programming, internal
sorting and searching, hashing, garbage collection;
storage management, rudiments of the analysis of
algorithms.

*Not intended for computer science majors. Taught in
Pascal. Prerequisite:* W 1003 or knowledge of Pascal.

3 points. x: M W 6:10-7:25

y: Hours to be arranged.

CSC W 3137x, y**Data Structures, B**

Data types and structures: arrays, stacks, singly and
doubly linked lists, queues, trees, sets, and graphs.
Programming techniques for processing such struc-
tures: sorting and searching, hashing, garbage col-
lection. Storage management. Rudiments of the
analysis of algorithms. A knowledge of Scheme is
assumed and students will be expected to learn C.
—Instructor to be announced.

Prerequisite: W 1007. *Corequisite:* W 3203.

3 points. x: M W 1:10-2:25

y: Hours to be arranged.

CSC W 3152x, y**Software Design Laboratory**

It is strongly recommended that this be taken con-
currently with W 3232. Advanced programming
in C. Programming methodology including struc-
tured programming, data abstraction, top-down
design, and modular decomposition.

Programming and debugging tools and strategies.
An introduction to building large software sys-
tems. Substantial programming is required. This
course is a prerequisite for all 4000-level software
courses. —Instructor to be announced.

Prerequisite: CSC W 3137.

3 points. Tu Th 11:00-12:15

CSC W 3203x, y**Discrete Mathematics: Introduction to
Combinatorics and Graph Theory**

Mathematical induction, counting arguments (per-
mutations and combinations, elementary finite
probability, generating functions, recurrence rela-
tions, inclusion-exclusion principle), and topics in
graph theory (isomorphism, planarity, circuits,
trees, and directed graphs). —Instructor to be
announced.

Prerequisite: Any introductory programming course.

3 points. x: Tu Th 9:30-10:45

y: Hours to be arranged.

CSC W 3205x, y

Introduction to Discrete Structures

Sets, relations and functions, logic, algebraic structures. Applications to computing.

—Instructor to be announced.

3 points. Not offered in 1992-93.

CSC W 3232x, y

Fundamental Algorithms

Pattern matching, lexical analysis, parsing, backtracking, divide and conquer, generating combinatorial objects, graph searching, spanning trees, external sorting and searching, 2-3 trees, balanced trees, B-trees, files; elements of data base design; other topics as time permits. Analysis of algorithms is stressed throughout.

Prerequisite: W 3137.

3 points. x: M W 4:10-5:25 —T. Tsantilas

y: M W 11:00-12:15 — N. Greenleaf

CSC W 3251y

Scientific Computation

Major topics of scientific computations: properties of floating point arithmetic, numerical stability and conditioning, interpolation, integration and approximation of scalar functions, nonlinear equations and ordinary differential equations. Covers also computational methods of linear algebra for solving systems of linear equations, linear least squares and the eigen values. The computational complexity of some of these problems will be discussed. The computer implementation of algorithms is stressed. —J. Traub

Prerequisites: Calculus I and II, MAT E 1210, EGM E 3101.

3 points. Tu Th 2:40-3:55

CSC W 3261x, y

Computability and Models of Computation

Regular languages, finite automata, regular grammars, non-determinism, regular expressions. Context-free languages, push-down automata, context-free grammars, parsing. Turing machines, general grammars, computability, the Chomsky hierarchy, the Church-Turing thesis, other models of computation.

Prerequisite: W 3137 and W 3203.

3 points. x: Tu Th 2:40-3:55 —N. Greenleaf

y: M W 11-12:15

CSC W 3823x, y

Digital Logic

Number representation, boolean algebra, combinational logic, Karnaugh maps, circuit minimization, NAND and NOR logic, fault detection, implementation of gates, integrated circuits, flip-flops, latches, counters and other basic function-

al circuits, sequential circuits, clocking.

Prerequisite: Any introductory programming course.

3 points. x: M W 11:00-12:15 —A. Tsantilas

y: Tu Th 4:10-5:25 —S. Unger

CSC W 3824x,y

Computer Organization I

Overview of computer organization, register transfer sequences, micro-operations, control functions, instruction codes, bus organization, ALU's, interrupts, memory, pipelining, I/O.

Prerequisite: CSC W 3823.

3 points. x: M W 11:00-12:15 —T. Boulton

y: Tu Th 1:10-2:25 —S. Unger

CSC W 3998x, y

Undergraduate Projects in Computer Science

This course may be repeated for credit but not for a total of more than 3 points of degree credit. Independent project involving laboratory work, computer programming, analytical investigation, or engineering design. —Staff

Prerequisite: Approval by a faculty member who agrees to supervise the work.

Up to 3 points. Hours to be arranged.

CSC W 4111x

Database Systems

Introduction to database systems: data modeling; logical design of relational databases; data definition and data manipulation languages; storage and indexing techniques; concurrency control; recovery; query processing; security and integrity; system administration; essentials of distributed operation. —D. Duchamp

Prerequisite: CSC W 3152, W 3232, W 3824 or permission of the instructor.

3 points. Tu Th 1:10-2:25

CSC W 4115x

Programming Languages and Translators

Covers language design issues; syntax; the translation process; names, locations and values; control structures; data types; input and output; procedures and parameters; nesting and scope; definition of new data types; dynamically varying structures; applicative languages; exception handling; parallel processing; and separately compiled modules. A large language implementation project is required. —G. Kaiser

Prerequisite: W 3152, W 3232, W 3261, W 3824, or permission of the instructor.

3 points. M W 1:10-2:25

CSC W 4118x**Operating Systems**

Design and implementation of operating systems. Topics include process management, process synchronization and interprocess communication, memory management, virtual memory, interrupt handling, processor scheduling, device management I/O, and file systems. Case study of the UNIX operating system. A programming project will be required. —D. Duchamp

Prerequisites: W 3152, W 3232, W 3824, or permission of the instructor.
3 points. Tu Th 9:30-10:35

CSC W 4119y**Computer Networks**

The design of system software to support computer networks, layered protocol architecture, distributed operating systems. A programming project will be required. —Y. Yemini

Prerequisite: W 4118.
3 points. Tu 4:10-6:00, Th 4:10-5:00

CSC W 4156x**Software Engineering**

Design and implementation of software systems. The software life cycle: requirements definition, specification, design, implementation, testing, and maintenance. User interfaces. Documentation. Management. Verification. A substantial group project is required. —S. Feiner

Prerequisite: W 3152, W 3232 or permission of the instructor. *Recommended preparation:* W 4118.
3 points. M W 5:40-6:55

CSC W 4160y**Computer Graphics**

An intensive introduction to computer graphics. Graphics hardware, design of graphics packages, interaction techniques, geometric transformations, 3D viewing and projections, raster scan conversion algorithms, image synthesis, visible surface determination, lighting and shading, representation of 3D shapes, object modeling and hierarchy, color, and animation. Advanced topics as time permits. Emphasis is on implementation of important graphics algorithms. —S. Feiner

Prerequisites: W 3232, and either W 3152 or W 4156. *Previous familiarity with C and UNIX is recommended.*
3 points. M W 5:40-6:55

CSC W 4201y**Theory of Computation**

Theory of computation, structure of complexity classes, computational complexity theory, feasible and infeasible computations. —T. Tsantilas

Prerequisite: W 3261 or permission of the instructor.
3 points. M W 4:10-5:25

CSC W 4203y**Graph Theory**

General introduction to graph theory, emphasizing algorithms. Eulerian paths and circuits, shortest paths, trees, minimum spanning trees, the number of spanning trees, depth-first search, network flows, bipartite matching and the marriage problem, the transportation problem, minimum-core flows, other topics as time permits. —Instructor to be announced.

Prerequisite: W 3203.
3 points. Hours to be arranged.

CSC W 4205x**Combinatorial Theory**

Permutations and combinations, generating functions, recurrence relations, the inclusion-exclusion method. Polya's enumeration methods. Other topics as time permits. —J. Gross
Prerequisites: CSC W 3203 and a course in calculus.
3 points. M W 1:10-2:25

CSC W 4231x**Analysis of Algorithms I**

CSC E 6232 is a continuation of this course. Some of the topics described below will not be covered until E 6232. Representation and generation of combinatorial objects; methods for the analysis of algorithms; counting and asymptotic evaluation analysis of sorting, searching, algorithms on graphs, operations on strings, arithmetic operations, matrix operations. Fourier transform; models of computation; the Turing machine model, the random-access model, circuit complexity and the VLSI model; probabilistic algorithms; elements of abstract complexity theory; complexity hierarchies; polynomial and NP problems; lower bounds on the complexity of various problems in various models; worst-case and average behavior of algorithms; Diophantine complexity; applications to cryptography and public key systems; linear programming and its complexity; the simplex and Khacian methods; average behavior of the simplex method. Other topics as time permits. —Z. Galil
Prerequisites: W 3137, W 3203.
3 points. M W 11:00-12:15

CSC W 4241x**Numerical Algorithms and Their Complexity I**

Modern theory and practice of computation on digital computers. Covers design and analysis of numerical algorithms. Techniques for analyzing computational complexity and errors. Solutions

of non-linear equations, polynomial equations, linear systems, interpolation, approximation, eigenvalues and eigenvectors, optimization, ordinary and partial differential equations. Some of these topics are covered in the sequel, CSC W 4242y. —J. Traub

Prerequisite: Knowledge of programming language. Some knowledge of differential equations and linear algebra is desirable.

3 points. Tu Th 2:40-3:55

CSC W 4701x, y **Artificial Intelligence**

This course is designed to give a senior level student a broad understanding of the basic techniques in use today for building intelligent computer systems. State-space representations, problem reduction, means-end analysis, and/or graphs. Heuristic searching; depth-first breadth-first, best-first, hill-climbing, divide and conquer, minimax, alpha-beta, predicate calculus, resolution theorem-proving; Horn clause theorem-provers; AI systems and languages; goals and contexts; issues of knowledge representation; learning and concept formation; LISP programming; other topics as time permits.

Prerequisite: W 3137.

3 points.x: Tu Th 4:10-5:25 —D. Litman
y: M W 1:10-2:25 —G. Maguire

CSC W 4705x **Natural Language Processing**

An introduction to the artificial intelligence approach to human language processing. Topics such as conceptual representation, story understanding, language generation, question answering, and the relation between computer models and cognitive psychology. Computer exercises in several of these areas. Some prior or concurrent exposure to AI and LISP is recommended.

—K. McKeown

Prerequisite: W 3137.

3 points. Tu Th 1:10-2:25

CSC W 4721y **Knowledge-based Expert Systems**

Focus is on current methods of implementing AI expert systems. Topics covered include the structure of problem-solving engines and knowledge bases for expert performance; problem taxonomies; methods to automate the acquisition of human experiential knowledge, methods to automate the explanation of problem-solving behavior; examples of existing expert systems and their application areas. —S. Stolfo

Prerequisite: W 4701.

3 points. M W 1:10-2:25

CSC W 4731x **Computer Vision**

The fundamentals of computer vision, viewed from an artificial intelligence perspective. Image formation. Low-level processing: edge detection, stereo, shape from shading, optical flow. Middle-level processing: line and curve aggregation, region growing, texture, image sequences. High-level processing: shape representations in two and three dimensions. Image understanding: knowledge bases, matching, inference, and planning. Other topics as time permits. Course programming project required. —S. Nayar

Prerequisite: W 4701 or permission of the instructor.
3 points. Tu Th 4:10-5:25

CSC W 4733y **Computational Aspects of Robotics**

Introduction to robotics from a Computer Science perspective. Topics include coordinate frames and kinematics, computer architectures for robotics, integration and use of sensors, world modeling systems, design and use of robotic programming languages, and applications of artificial intelligence for planning, assembly and manipulation. —P. Allen

Prerequisite: W 4701.

3 points. Tu Th 1:10-2:25

CSC W 4995x, y **Special Topics in Computer Science**

Special topics arranged as the need and availability arise. Topics are usually offered on a one-time basis. This course may be repeated for credit. — Instructor to be announced.

Permission of the instructor required.

3 points. Hours to be arranged.

CSC W 4996x, y **Special Topics in Computer Science**

A continuation of Course W 4995, when the special topic is to be offered over two semesters. — Instructor to be announced.

Permission of the instructor required.

3 points. Hours to be arranged.

Professor: Sandra Genter

Senior Lecturer: Janet Soares (Chair)

Assistant Professor: Ellen Graff

Senior Associate: Janis Ansley-Ungar

Associates: Marcos Dinnerstein, Katiti King, Elena Kunikova, Francine Landes

Technical Director for Dance: Rhonda Robinson

The Barnard Dance Department seeks to develop technical versatility in dance performance, skill and originality in choreography, and critical understanding of the art of dance as a part of history and culture. Emphasis is placed on performing opportunities in ballet and modern idioms each semester, and on the encouragement of each student's growth as a creative artist.

Studios and theaters in New York City provide Barnard students opportunities to study and view an array of dance, while major libraries and dance institutions offer rich possibilities for research. The Dance Department regularly invites guest artists to teach, choreograph, and present symposia and workshops throughout the year.

All dance courses except Senior Seminar are open to students who meet the prerequisites. Students accepted as majors may take certain courses in the Dance Division of Juilliard School, and also outside classes with artist teachers in conjunction with their dance study within the department. Barnard College is an accredited institutional member of the National Association of Schools of Dance.

Students contemplating a dance major should consult with a member of the department in their first year. Declaration of the major requires departmental approval.

REQUIREMENTS FOR THE MAJOR

A minimum of 13 courses are required for the dance major. In addition, majors normally take two technique courses per semester. A Senior Major Project must be completed either in a research thesis or a performance in dance under the supervision of a chosen department adviser.

I. Nine required courses must include:

DAN BC 2561	<i>Kinesiology</i>
DAN BC 2562	<i>Movement Analysis</i>
DAN BC 2563	<i>Dance Composition: Form</i>
DAN BC 2564	<i>Dance Composition: Content</i>
DAN BC 2565	<i>History of Dance I: Multi-Cultural Perspectives</i>
DAN BC 2566	<i>History of Dance II: Renaissance to Present</i>
DAN BC 3571	<i>Performance Styles</i>
DAN BC 3572	<i>Repertory in Production</i>
DAN BC 3591	<i>Senior Seminar for Dance</i>

II. Two courses elected from the following:

DAN BC 2555	<i>Ensemble Dance Repertory</i>
DAN BC 2567	<i>Fundamentals of Music for Dancers</i>
DAN BC 3576	<i>Dance Criticism</i>
DAN BC 3574	<i>Seminar on Contemporary Choreographers and Their Works</i>
DAN BC 3577	<i>Performing the Political</i>

DANCE

III. Two non-department courses to be elected in pursuit of the historical and cultural contexts of dance. Courses in philosophy of art, cultural history, art, music and theater history, anthropology, and religion, may be chosen with permission of department chair. One of these will fulfill distribution as well as major requirements. ARS BC 3031 *Imagery and Form in the Arts* is highly recommended.

IV. A minimum of six points of dance technique courses.

REQUIREMENTS FOR THE MINOR

Six courses constitute a minor in Dance. Normally, three history/criticism and three credit-bearing performance/choreography courses are taken. Courses are to be selected on the basis of consultation with the department chair.

COURSES OF INSTRUCTION

DAN BC 2561x

Kinesiology

Focus on physical sciences that relate to human movement, with an emphasis on functional anatomy. Topics include skeletal structure, physics of dance, muscular balance, and improving movement potential. —S. Genter

3 points. W F 1:10-2:25

DAN BC 2562

Movement Analysis

Study of the nature of human movement concentrating on the basic elements of space, time, and body dynamics through readings, experimentation, and discussion. Learning descriptive movement language and analytical skill from the concepts of Rudolph Laban.

3 points. Not offered in 1992-93.

DAN BC 3571x

Performance Styles

The study of solo excerpts from classical and modern repertory and the presentation of individual research in both written and performance format. Emphasis will be placed on the role that the dancer must play to facilitate the realization of the choreographer's concept. —J. Ansley-Ungar

3 points. W F 1:10-2:25

DAN BC 3572y

Repertory in Production

The relationship of dance repertory and production. The rigorous study of the visual elements of dance design through aesthetic and critical evaluation of scenographic techniques as they relate to specific dance repertory works.

—R. Robinson and J. Soares

3 points. Tu F 11:00-12:15

DAN BC 2563x

Dance Composition: Form

The study of choreography as a creative art. The development and organization of movement materials according to formal principles of composition in solo and duet forms. Applicable to all styles of Dance. —J. Soares

3 points. Tu Th 12:10-1:25

DAN BC 2564y

Dance Composition: Content

Continued study of choreography as a communicative performing art form. This semester of dance making focuses on the exploration of ideas and meaning. The emphasis is placed on the development of personal style as an expressive medium, and unity of style in each work. Group as well as solo compositions will be assigned. —J. Soares

3 points. Tu Th 1:10-2:25

DAN BC 2565x

History of Dance I:

Multi-Cultural Perspectives

Investigates the multi-cultural perspectives of Dance in major areas of culture in the world to include African, Asian, Hispanic, Indian, Mid-eastern, as well as dance history of the Americas through reading, writing, viewing and discussion of a wide range of resources. These include film, original documents, demonstration and performance. —E. Graff

3 points. Tu Th 2:40-3:55

H

DAN BC 2566y

History of Dance II: Renaissance to Present

Focuses on the history of theater Dance forms originating in Europe and America from the Renaissance to the present. Includes reading, writing, viewing and discussion of sources such as

film, text, original documentation, demonstration and performance. —E. Graff
3 points. Tu Th 10:35-11:50 H

DAN BC 2567y

Fundamentals of Music for Dancers

An intensive study of musicianship skills and musical literacy designed for students of dance. Analysis of the elements of rhythm, tonality, musical structure, texture and style, with laboratory work in ear-training, pitch reading, rhythm skills, score-reading and elementary composition. 3 points. Not offered in 1992-93.

DAN BC 2555y

Ensemble Dance Repertory

The study and performance of choreography using three approaches: learning excerpts from the repertoire of selected contemporary choreographers, analyzing through reconstruction of classic repertory work through Labanotation and understanding the choreographic process by working in a creation from initial concept to finished dance. —S. Genter
3 points. Tu Th 4:10-5:25

DAN BC 3574x

Seminar on Contemporary Choreographers and Their Works

Form, style and content of selected contemporary choreographers. Sources include film, videotape, attendance at rehearsals and concerts, and interviews. —S. Genter
3 points. Not offered in 1992-93.

DAN BC 3576y

Dance Criticism

Intensive practice in writing about dance. Readings drawn from 19th- and 20th-century dance criticism. Observation includes weekly performances and classroom videotape sessions. 3 points. Not offered in 1992-93.

DAN BC 3577x

Performing the Political: Embodying Change in 20th-Century American Performance

An examination of ways in which political and social ideologies are embodied in 20th-century American performance. Topics include venues designed to support traditional values, as well as to propagandize, such as pageantry, workers' theatre and dance, performance art. Reading and viewing assignments. —E. Graff
3 points. M W 2:40-3:55 H

DAN BC 3591x

Senior Seminar in Dance

Research and scholarly writing in chosen topics relating to dance. Methods of investigation will

be drawn from prominent archival collections and personal interview, as well as other resources. Papers will be formally presented to the Dance Department upon completion. —J. Soares

4 points. Tu 2:10-4:00

BC 3592x, y

Senior Project: Research for Dance

Independent study for research and writing (35-50 page thesis required). —Staff
3 points. Hours to be arranged.

BC 3593x, y

Senior Project: Repertory for Dance

Independent study for preparing and performing repertory works in production to be presented in concert. —Staff
3 points. Hours to be arranged.

DAN BC 3099x, y

Independent Study —Staff

1-4 points.

DANCE TECHNIQUE COURSES

Level I courses receive a pass/fail grade and have no prerequisite. All others will receive a letter grade and require a placement audition (to be held *September 3 at 4:00 pm* and *September 8 at noon*) or permission of the instructor. All courses listed below may be taken for 0 credit to fulfill the physical education requirement. One-point dance technique courses taken by non-dance majors for credit over and above the physical education requirement are included in the existing maximum of 18 points of studio, performing art, or professional school courses which may be credited toward the degree; a maximum of six courses in dance technique can be credited. A student who takes more than two one-point dance technique courses for credit beyond the physical education requirement is required to validate the third and fourth dance technique courses with a concurrent course offered by the Dance Department which does not contain a technique component.

Modern Dance

The study of contemporary dance based on the work of 20th-century innovators, Cunningham, Graham, Humphrey, Limón and others. Aesthetic principles of modern dance will be taught with increased technical demands required in each successive level.

DANCE

DAN BC 1329x

Fundamentals of Dance Movement

Introduction to basic movement techniques common to all dance styles. —S. Genter

1 point. M W 6:00-7:30

DAN BC 1330x, y

Modern I: Beginning Modern Dance

1 point. x: Tu Th 5:30-7:00 —E. Graff

y: Tu Th 10:30-12:00 —S. Genter

DAN BC 1331x, y

Modern II:

Advanced Beginning Modern Dance

1 point. x: Tu Th 9:00-10:30 —F. Landes

y: Tu Th 12:00-1:30 —S. Genter

DAN BC 2332x, y

Modern III: Intermediate Modern Dance

1 point. x: M W 10:30-12:00 —S. Genter

y: M W 9:00-10:30 —F. Landes

DAN BC 2333x

Modern IV: High Intermediate Modern Dance

—E. Graff

1 point. Tu Th 4:00-5:30

DAN BC 3332x, y

Modern V: Advanced Modern Dance

1 point. x: Tu Th 10:30-12:00 —F. Landes

y: Tu Th 2:30-4:00 —S. Genter

DAN BC 3333y

Modern VI: High Advanced Modern Dance

—F. Landes

1 point. M W 10:30-12:00

DAN BC 3334y

Improvisation

Techniques of invention through problem-solving methods in dance.—S. Genter

1 point. M W 2:30-4:00

Ballet

Technique of classical ballet emphasizing proper alignment and graduated study of its vocabulary. Artistry of articulation, phrasing, dynamics, nuance in the spectrum of classical materials will be addressed at each level.

DAN BC 1135x

Ballet I: Beginning Ballet

1 point.

x: Sec. 1 M W 9:00-10:30 —J. Ansley-Ungar

Sec. 2 Tu Th 10:30-12:00 —J. Soares

y: M W 12:00-1:30—J. Ansley-Ungar

DAN BC 1136x, y

Ballet II: Advanced Beginning Ballet

1 point.

x: Sec. 1 M W 9:00-10:30 —J. Ansley-Ungar

Sec. 2 Tu Th 10:30-12:00 —J. Soares

y: M W 12:00-1:30—J. Ansley-Ungar

DAN BC 2137x

Ballet III: Intermediate Ballet

1 point. W F 10:30-12:00 —J. Ansley-Ungar

DAN BC 1553y

Ballet Technique and Theory

The study of intermediate ballet techniques from various ballet traditions. Comparison of the styles of the different schools through the study of variations; readings, videos/films, developing short movement studies, and discussion accompany the studio work. —J. Ansley-Ungar

2 points. M W 2:10-4:00

DAN BC 2138y

Ballet IV: High Intermediate Ballet

1 point. x: M W 2:30-4:00 —E. Kunikova

y: M F 9:00-10:30 —J. Ansley-Ungar

DAN BC 3138x, y

Ballet V: Advanced Ballet

—M. Dinnerstein

1 point. M W 4:00-5:30

DAN BC 3140x, y

Ballet VI: Advanced Ballet and Pointe

—E. Kunikova

1 point.

x: Tu Th 2:30-4:00

y: Tu Th 4:00-5:30

DAN BC 3139x, y

Classic Variations

Pointe work when the repertory demands it.

—E. Kunikova

1 point. Tu Th 4:00-5:30

DANCE STYLES

The study of indigenous dance forms including character, jazz, musical theater and tap. (Dance majors may elect to study Spanish and Indian dance forms at the Juilliard School.)

DAN BC 1247x

Jazz Dance I: Beginning Jazz

—K. King

1 point. M W 4:00-5:30

DAN BC 2248x, y
Jazz Dance II: Intermediate Jazz.

—K. King

1 point. x: M W 5:30-7:00

y: M W 4:00-5:30

DAN BC 3249y
Advanced Jazz

—K. King

1 point. M W 2:30-4:00

DAN BC 2141y
Character Dance

—E. Kunikova

1 point. Tu Th 2:30-4:00

DAN BC 1446x

Tap Dance I: Beginning Tap

—J. Ansley-Ungar

Not offered in 1992-93.

DAN BC 2447y

Tap Dance II: Intermediate Tap

—J. Ansley-Ungar

Not offered in 1992-93.

DAN BC 2140y

Musical Theater Dance

—E. Graff

Not offered in 1992-93.

Professors: Duncan Foley, William Lazonick, Deborah Milenkovich (Chair)

Associate Professor: André Burgstaller¹

Assistant Professors: Linda Barrington, Cecilia Conrad, Maria Crummett, Christopher Grandy¹, Perry Mehrling

Adjunct Assistant Professor: Ramesh Deonaraine

Other officers of the University offering courses listed below:

Professors: Jagdish Bhawati, Philip D. Cagan, Graciela Chichilnisky, Padma Desai, Phoebus Dhrymes, Richard Ericson, Ronald E. Findlay, Kelvin Lancaster, Robert Mundell, Hugh Patrick (Graduate School of Business), Stanislaw Wellisz, Harold Watts

Associate Professor: Christopher Cavanagh, Brendan O'Flaherty

Assistant Professors: Jay Pil Choi, Prajit Dutta, Todd Idson, John McLaren, Katherine Morgan, Phillip Jefferson

Adjunct Professors: Andrew Abere, Vahid Nowshirvani, Carl Riskin, Lewis Schier

¹Absent on leave 1992-93

The Department of Economics offers a broad course of study in economic theory and applied economics. The study of economics is an important foundation for a student's general understanding of modern history and society. Barnard's major programs in economics also prepare students for graduate work in economics, business, law, public administration, international relations and related fields, as well as for careers in business, finance, and government. The aim of the programs is (i) to foster a critical understanding of economics and its relations to other disciplines; (ii) to develop students' mastery of modern economic theory and tools of analysis.

Students planning to major in economics or political economy should complete an intermediate macro- or microeconomic theory course before the beginning of their junior year. Students must complete all of their required courses for the major as well as their upper-level electives (those requiring an intermediate microeconomic or macroeconomic theory course as a prerequisite and, for Political Economy track majors, the upper-level political science course) before they are allowed to register for the senior essay.

Students with a score of 4 or 5 on the Advanced Placement Examination in either macroeconomics or microeconomics will receive a total of three points credit.

REQUIREMENTS FOR THE MAJOR

There are two tracks for the major in economics equal in rigor and number of courses required, but different in scope and focus. The track in Economics will prepare students with the analytical, mathematical, and economic tools now expected of entering graduate students in economics and useful for graduate study in related fields such as business. The track in Political Economy embraces some techniques of contemporary analysis, but emphasizes the rediscovery of the roots and traditions of economic thought and focuses on interconnections between social forces, political institutions, and economic power. This track constitutes an excellent preparation for a variety of professional schools and careers.

Prospective majors should discuss their programs with any member of the department no later than their sophomore year. At the time of declaring a major the student also chooses a major adviser who will advise her as to choice of program and courses, and help in the choice of a senior essay topic and adviser.

Students who wish to complete a double or joint major including economics should consult the chairman of the department as early in their planning as possible.

Economics

The Economics track major requires either MAT V 1111. *Calculus for Social Sciences I*, (The addition of MAT V 1112 is strongly recommended), or MAT V 1106-1107 (*Calculus IS and IIS*), or MAT V 1101-1102, with V 1201, (*Calculus IA, IIA, and IIIA*) and nine courses in economics including:

ECO BC 3033	<i>Intermediate Macroeconomic Theory</i>
ECO BC 3035	<i>Intermediate Microeconomic Theory</i>
ECO BC 3041	<i>The Theoretical Foundations of Political Economy</i>

One of the following:

ECO BC 2411	<i>Statistics for Economics</i>
STA W 1111	<i>Introduction to Statistics</i>

One of the following:

ECO BC 2412	<i>Empirical Methods for Economics</i>
ECO BC 3018	<i>Econometrics</i>

Two electives, which require an intermediate microeconomic or macroeconomic theory course as a prerequisite; and

ECO BC 3061-3062	<i>Senior Research Seminar</i>
------------------	--------------------------------

Political Economy

The Political Economy track major requires 11 courses, including:

ECO BC 3033	<i>Intermediate Macroeconomic Theory</i>
ECO BC 3035	<i>Intermediate Microeconomic Theory</i>
ECO BC 3041	<i>The Theoretical Foundations of Political Economy</i>

Three electives which require an intermediate microeconomic or macroeconomic theory course as a prerequisite:

Two electives in economics (excluding introductory economics), or a related discipline; one upper-level course in political science*; and

ECO BC 3061-3062	<i>Senior Research Seminar.</i>
------------------	---------------------------------

*The following Political Science courses are not considered upper-level:

BC 3001	<i>Dynamics of American Politics;</i>
V 3505	<i>Introduction to Comparative Politics;</i>
V 3611	<i>International Politics;</i>
BC 3013	<i>Political Theory.</i>

Both Economics and Political Economy track majors must file the “Major Requirements Declaration” form—available from the department office—no later than registration of the first semester of their senior year. This form must be approved by the chair before a student will be allowed to register for the senior thesis, BC 3061-BC 3062.

Political Economy majors who plan to go on to graduate school in business or in international relations with an economics concentration should take one semester of credit college math (either pre-calculus or calculus), and Economics BC 2411.

Political Economy majors who plan to go on to graduate school Ph.D. programs in economics should take one year of calculus, Economics BC 2411, and Econometrics among their economics electives.

Mathematics Training for the Major

The department expects all majors to have a working knowledge of arithmetic, high-school algebra, and the fundamentals of analytic geometry. Beyond that, we highly recommend that majors take calculus (required of Economics track majors).

REQUIREMENTS FOR THE MINOR

The minor in economics requires five courses, including an introductory course in economics, BC 3033 or BC 3035, and three electives, one of which has an intermediate microeconomic or macroeconomic theory course as a prerequisite.

COURSES OF INSTRUCTION

GENERAL COURSES

Courses listed under this heading may be taken without previous study of economics.

ECO BC 1001x, y
Introduction to Economics

Basic concepts of economic analysis, with emphasis on the aggregate economy; essentials of supply and demand, national income and its determination, United States economic institutions, government, finance and monetary economics, economic growth and inequality (Macroeconomic Principles). —Staff
Credit cannot be granted for both BC 1001 and W 1105.
3 points. S

x: Sec. 1 Tu Th 9:10-10:25
Sec. 2 Tu Th 1:10-2:25
y: Sec. 1 Tu Th 1:10-2:25
Sec. 2 Tu Th 2:40-3:55

ECO BC 1002x, y
Introduction to Economics

Basic concepts of economic analysis, with emphasis on resource allocation: determination of price and income distribution through supply and demand, market structures, international economics, problems of developing nations, and alternative economic systems (Microeconomic Principles). —Staff
BC 1001 is not a prerequisite for BC 1002.
3 points. S

x: Sec. 1 Tu Th 2:40-3:55
Sec. 2 Tu Th 4:10-5:25
y: Sec. 1 Tu Th 4:10-5:25
Sec. 2 Tu Th 2:40-3:55

ECO BC 2035y
Microeconomic Policy Analysis

Introduction to microeconomics theory and cost/benefit analysis through case studies. Specific cases studied may vary from year to year, but will always include at least one case

from each of the following three subject areas: (1) environmental policy; (2) tax policy and income redistribution; and (3) urban economic development. —C. Conrad
3 points. M W 1:10-2:25 S

ECO BC 2411x
Statistics for Economics

Elementary computational methods in statistics. Basic techniques in regression analysis of econometric models. One hour weekly recitation sessions to complement lectures. —L. Barrington
4 points. M W 1:10-2:25 S

CONTEMPORARY PROBLEMS COURSES

The analysis of contemporary problems using institutional and traditional approaches.
Prerequisite: An introductory course in economics or permission of the instructor.

ECO BC 2010x
Sex, Discrimination, and the Division of Labor

An introduction to the role of women in the economy, including the productive uses of women's labor in the labor market, housework and childbearing; role of government and unions in structuring women's options, and some international comparisons. —C. Conrad
3 points. M W 2:40-3:55 S

ECO BC 2013x
Economic History of the United States

An introduction to the rise and decline of U.S. economic power. Beginning with the social transformation of the late 19th and early 20th century that permitted the U.S. to surpass Britain as the world's leading industrial economy and concludes with the rise of Japanese competition in the 20th century. Reasons for the United States current economic decline; long term social and economic policies to ensure U.S. economic prosperity. —W. Lazonick
3 points. Tu Th 2:40-3:55 S

ECO BC 2014y**Topics in American Economic History**

3 points. Not offered in 1992-93.

ECO BC 2024y**Women in International Development**

3 points. Not offered in 1992-93.

ECO BC 2025x**World Economy**

3 points. Not offered in 1992-93.

ECO BC 2026y**Modern Capitalism**

3 points. Not offered in 1992-93.

ECO BC 2028x**Economic Development of Latin America**

3 points. Not offered in 1992-93.

ECO BC 2057x**The War Economy**

3 points. Not offered in 1992-93.

SPECIALIZED COURSES**ECO BC 2412x, y****Empirical Methods for Economics**

A weekly recitation section to develop practical applications of techniques learned in the first semester of statistics or statistics for economics. To develop a testable model, collect data, and determine an appropriate statistical test. (To be taken only in conjunction with one of a specified set of other courses at an upper level determined annually by the department.) —L. Barrington

Prerequisites: BC 2411 or STA W 1111 and permission of the instructors in BC 2412 and the upper level course.
1 point. Hours to be arranged.

ECO BC 3011x**Poverty and Income Distribution**

Issues of definition and measurement relating to poverty and distribution of income in the U.S., analysis of cross section and time-series data; alternative economic theories of poverty and income distribution, e.g., transfers, wage subsidies, training programs. —C. Conrad

Prerequisite: Intermediate Microeconomic or Macroeconomic Theory or permission of the instructor.

3 points. Tu Th 2:40-3:55

ECO BC 3016x**Spending, Deficits and Taxes**

Prerequisite: Intermediate Microeconomic Theory, or permission of the instructor.

3 points. Not offered in 1992-93.

ECO BC 3018y**Econometrics**

Specification, estimation, and evaluation of economic relationships using economic theory, data and statistical inference; testable implications of economic theories; econometric analysis of topics such as consumption, investment, wages and employment, and financial markets. —L. Barrington
Prerequisites: Intermediate Microeconomic or Macroeconomic Theory and BC 2411, or permission of the instructor.

4 points. Lecture M W 1:10-2:25

Laboratory hours to be arranged.

ECO BC 3019x**Labor Economics**

Prerequisite: Intermediate Microeconomic Theory or permission of the instructor.

3 points. Not offered in 1992-93.

ECO BC 3021y**The Regulation of Industry**

Prerequisite: Intermediate Microeconomic Theory.

3 points. Not offered in 1992-93.

ECO BC 3029x**The Economics of Underdeveloped Areas**

Theories of economic underdevelopment and development; selected problems in trade, foreign investment, technological change, industrialization, agriculture and state policy. —M. Crummett
Prerequisite: Intermediate Microeconomic or Macroeconomic Theory or permission of the instructor.

3 points. Tu Th 10:35-11:50

ECO BC 3030y**Comparative Economic Systems**

Prerequisite: Intermediate Microeconomic Theory or permission of the instructor.

3 points. Not offered in 1992-93.

ECO BC 3033x, y**Intermediate Macroeconomic Theory**

Systematic and analytically oriented exposition of current macroeconomic theories of unemployment, inflation and international financial adjustments. Weekly recitation section to complement lectures.

Prerequisites: An introductory course in economics and a functioning knowledge of high school algebra and analytical geometry or permission of the instructor.

4 points.

Primarily for majors in the economic track.

x: Tu Th 10:35-11:50 —R. Deonarine

Primarily for majors in the political economic track.

y: Tu Th 10:35-11:50 —M. Crummett

ECO BC 3035x, y

Intermediate Microeconomic Theory

Behavior of markets, resource allocation, theories of production and cost, pricing of goods and services under alternative market structures, implications of individual decision-making for consumer demand and labor supply, income distribution, and welfare and public policy. Emphasis on problem solving. Weekly recitation section to complement lectures.

4 points.

Prerequisites: An introductory course in economics and a functioning knowledge of high school algebra and analytical geometry, or permission of the instructor. This section is primarily for students in the Political Economy track.

x: M W 4:10-5:25 —L. Barrington S

Prerequisites: An introductory course in economics or permission of the instructor, 1 semester of calculus for social sciences (Calculus IE) or 3 semesters of regular calculus (Calculus I, II, III) This section is primarily for students in the Economics track.

y: Tu Th 9:10-10:25 —R. Deonaraine S

ECO BC 3037y

Growth, Distribution and Money

Prerequisites: Intermediate Macroeconomic and Microeconomic Theory or permission of the instructor. 3 points. Not offered in 1992-93. S

ECO BC 3039y

Natural Resources and Environmental Economics

An economic analysis of major issues and policy choices concerning the environment and stock of natural resources. Topics include: public goods; cost/benefit analysis; hedonic prices; efficient sustainable yield; Pigovian taxes and marketable emission permits. (This course will be recognized as an upper-level elective for Economics majors who demonstrate advanced economic analysis.) —L. Barrington

Prerequisites: ECO BC 1002 or ECO BC 2035.

Prerequisites for Economic Majors: ECO BC 3035 or the equivalent.

3 points. M W 4:10-5:25

ECO BC 3041x, y

The Theoretical Foundations of Political Economy

Intellectual origins of the main schools of thought in political economy. Classical political economy, Marxian economics, Neo-classicism, Keynesianism, and Monetarism. Theoretical controversies in 20th-century political economy.

Prerequisite: An introductory course in economics or permission of the instructor.

3 points.

x: Tu Th 1:10-2:25 —W. Lazonick S

y: M W 2:40-3:55 —D. Foley

ECO BC 3044y

US Industrial Policy

Prerequisite: Intermediate Microeconomic or Macroeconomic Theory.

3 points. Not offered in 1992-93. S

ECO BC 3051y

Law and Economics

Prerequisites: Intermediate Microeconomic Theory.

3 points. Not offered in 1992-93.

ECO BC 3061x, 3062y

Senior Research Seminar

Discussions and conferences on the researching and writing of the senior essay. —Staff

Prerequisites: BC 3033, BC 3035, BC 3041, BC 2411 or W 1111, BC 3018 or BC 2412, and 2 electives which require an Intermediate Microeconomic or Macroeconomic Theory course as a prerequisite, or BC 3033, BC 3035, BC 3041, an upper-level Political Science course, and 3 electives which require an Intermediate Microeconomic or Macroeconomic Theory course as a prerequisite. See department for application forms. 4 points. Hours to be arranged.

ECO BC 3063x

Seminar: Topics in Economic Theory

A seminar on a topic in economic theory of the instructor's choice. —Instructor to be announced. *Prerequisite:* Intermediate Microeconomic or Macroeconomic Theory and permission of the instructor. 4 points. Not offered in 1992-93.

ECO BC 3064y

Seminar: Topics in Economic Policy

A seminar on a topic in economic policy of the instructor's choice. —Instructor to be announced. *Prerequisites:* Intermediate Microeconomic or Macroeconomic Theory and permission of the instructor. 4 points. Not offered in 1992-93. S

ECO BC 3065y

Seminar in Business Organization

A seminar in the evolving nature of the business enterprise; the roles of labor, technology, management, and finance in the production and distribution of services; the sources of productivity, profitability, and competitive advantage; the impact of business organization on national economic performance; the implications of business organization for alternative economic theories and for alternative economic policies. —W. Lazonick

Prerequisites: Intermediate Microeconomic Theory and permission of the instructor.

4 points. Tu 4:10-6:00

S

ECO BC 3099x, y
Independent Study

—Staff

Points to be arranged. Hours to be arranged.

ECO W 4258y
Worker Management

Prerequisite: Intermediate Microeconomic or Macroeconomic Theory or permission of the instructor.

3 points. Not offered in 1992-93.

S

ECO W 4524y
Economic Organization of Eastern Europe

Organization and performance of Soviet-type economics; pressure for change; comparison of reforms in Yugoslavia, Eastern Europe and the CIS. —D. Milenkovitch

Prerequisite: Intermediate Microeconomic or Macroeconomic Theory or permission of the instructor.

3 points. M W 2:40-3:55

S

ECO W 4435x
Economics of Socialism

The theory and historical experience of socialism. Marx's theory of socialism, theories of socialist growth, planning, decentralization and worker control. Criticisms of socialism including principal-agent problems and property rights issues. Case studies drawn from the Soviet Union, China, Cuba, Hungary and Yugoslavia. Readings will include works of Marx, Dobb, Sen, Lange, von Mises, Hayek, Leontief, Horvat, and Kornai. —D. Milenkovitch

Prerequisite: Intermediate Microeconomic Theory or permission of the instructor.

3 points. M W 2:40-3:55

S

The following courses are described in the bulletin of Columbia College. Graduate courses are open to qualified undergraduates with the instructor's permission.

Note: Barnard Economics BC 3033 is equivalent to Columbia W 3213, and Barnard BC 3035 to Columbia W 3211.

ECO W 3022y
Economics of Finance

—K. Morgan

Prerequisites: calculus, statistics, and intermediate microeconomics.

3 points. M W 2:40-3:55

S

ECO W 3173x
Seminar in Economic Development

—S. Wellisz

Prerequisites: W 3211, W 3213 and W 3321 and permission of the instructor.

4 points. M 2:10-4:00

ECO W 3186x
Seminar in Labor Economics

—H. Watts

Prerequisites: W 3411.

4 points. Tu 2:10-4:00

ECO W 3228y
The Urban Economy

—B. O'Flaherty

Prerequisite: W 3211.

3 points. M W 10:35-11:30

S

ECO W 3251y
Industrial Organization

—J. P. Choi.

Prerequisite: W 3211

3 points. Tu Th 9:10-10:25

ECO W 3261y
Introduction to Accounting and Finance

4 points. Sec. 1 M W 6:10-8:00 — K. Morgan

Sec. 2 Tu Th 12:10-2:00 —L. Schier

(Note: Only one course in accounting will be credited toward the Bachelor of Arts degree.)

ECO W 3321y
Economic Development

—J. McLaren

Prerequisite: Economics W 3211.

3 points. Tu Th 9:10-10:25

S

ECO W 3411y
Labor Economics

—H. Watts

Prerequisite: W 3211.

3 points. M W 1:10-2:25

S

ECO W 3412x, y
Econometrics

Prerequisites: Statistics W 1111 or the equivalent and W 3211 or W 3213.

3 points.

x: Sec. 1 M W 2:40-3:55 —P. Dhrymes

Sec. 2 Tu Th 6:10-7:25 —H. Watts

y: Sec.1 Tu Th 10:35-11:50 —C. Cavanagh

Sec 2 Tu Th 6:10-7:25 —T. Idson

S

<p>ECO W 3415y Game Theory —J.P. Choi <i>Prerequisite:</i> Economics W 3211. 3 points. Tu Th 11:00-12:15</p>		<p>ECO W 3913x Seminar in Macroeconomic Theory —P. Jefferson <i>Prerequisite:</i> W 3213. 4 points. Tu 6:10-8:00</p>	S
<p>ECO W 3610x The Economic Analysis of Law —A. Abere <i>Prerequisite:</i> Economics W 3211. 3 points. M W 6:10-7:25</p>		<p>ECO W 4235y Historical Foundations of Modern Economics: Adam Smith to JM Keynes —K. Lancaster 3 points. M W 11:00-12:15</p>	S
<p>ECO W 3711x Monetary Economics and Policy —P. Cagan <i>Prerequisite:</i> W 3213. 3 points. M W 2:40-3:55</p>		<p>ECO G 4325y Economic Organization and Development of Japan —H. Patrick <i>Prerequisites:</i> W 3211 or W 3213. 3 points. Hours to be arranged</p>	S
<p>ECO W 3863x Public Economics —K. Lancaster <i>Prerequisite:</i> W 3211. 3 points. M W 1:10-2:25</p>		<p>ECO W 4337x Economic Organization and Development of the Middle East —V. Nowshirvani <i>Prerequisite:</i> W 1105. 3 points. M 4:10-6:00</p>	S
<p>ECO W 3886y Seminar in Public Economics —K. Lancaster <i>Prerequisite:</i> W 3863. 4 points. W 4:10-6:00</p>		<p>ECO G 4523x Economic Organization and Development of the CIS —R. Ericson <i>Prerequisite:</i> W 1105. 3 points. Tu 4:10-6:00</p>	S
<p>ECO W 3904x, y International Trade x: R. Mundell, y: R. Findlay <i>Prerequisite:</i> W 3211. 3 points. x: Tu Th 6:10-7:25 y: M W 9:10-10:25</p>		<p>ECO W 4526y Current Economic Problems of the CIS —P. Desai <i>Prerequisite:</i> W 1105. 3 points. W 2:10-4:00</p>	
<p>ECO W 3905x International Monetary Theory and Policy —R. Mundell <i>Prerequisite:</i> W 3213. 3 points. Tu Th 1:10-2:25</p>	S	<p>ECO G 4527y Economic Organization and Development of China —C. Riskin <i>Prerequisite:</i> W 1105. 3 points. Tu 4:10-6:00</p>	S
<p>ECO W 3906y Seminar in International Trade —J. Bhagwati <i>Prerequisite:</i> W 3904 and permission of the instructor. 4 points. Tu 4:10-6:00</p>	S	<p>ECO W 4625x The Economics of the Environment —G. Chichilnisky <i>Prerequisite:</i> W 3211. 3 points. M W 11:00-12:15</p>	
<p>ECO W 3907y Seminar in International Monetary Theory and Policy —R. Mundell <i>Prerequisite:</i> W 3905 and permission of the instructor. 4 points. M 2:10-4:00</p>			
<p>ECO W 3911y Seminar in Microeconomic Theory —P. Dutta <i>Prerequisite:</i> W 3211. 4 points. Tu 4:10-6:00</p>			

This program is supervised by the Committee on Economic History.

Economics: Christopher Grandy, William Lazonick (Program Adviser)

History: Deborah Valenze, William McNeil

The Economic History Program seeks to develop an understanding of the historical process from an economic perspective. The program combines a solid background in economic analysis with an in-depth study of history. Majors in this program will be prepared to enter graduate programs in law, business, public policy or administration, as well as economics and history.

REQUIREMENTS FOR THE MAJOR

A major in Economic History must complete the following 11 courses or their equivalents:

ECO BC 2013.	<i>Economic History of the United States</i>
ECO BC 3041.	<i>Theoretical Foundations of Political Economy</i>

Two of the following:

ECO 3033.	<i>Intermediate Macroeconomic Theory</i>
ECO 3035.	<i>Intermediate Microeconomic Theory</i>
ECO 2411.	<i>Statistics for Economics</i>

ECH BC 3066. *Colloquium in Economic History.*
(Students must have completed the requirements above before taking this course).

Four History courses (three within a single concentration) selected in consultation with the major advisor.

Two semesters of Senior Research Seminar in Economics or History.

Students must complete all of the requirements for the major before they will be permitted to register for the Senior Essay.

No minor is offered in the Economic History Program.

COURSES OF INSTRUCTION

ECH BC 3066
Colloquium in Economic History
Analytical and empirical methods in economic history through intensive study of one topic area. Topics in American and European economic history offered in alternate years. Specific topic to be determined by the instructor. —Instructor to be announced.
Prerequisites: ECO BC 2013, 3041, and two of the following: ECO BC 3033, 3035, 2411 or equivalent.
4 points. Hours to be arranged.

EDUCATION

336B Milbank Hall

854-2117, 5408, 7072

Senior Lecturer: Susan Riemer Sacks (Program Director)

Senior Associate: Katherine Knight Wilcox

Associate: Sumner Braunstein

This program is supervised by the Committee on Education:

Professor of English: Remington Patterson

Professor of Spanish: Mirella Servodidio

Professor of Psychology: Peter Balsam

Associate Dean of Columbia College: Kathryn Yatrakis

Dean of Students, School of General Studies: David Lelyveld

The Barnard Education Program is open to Barnard, Columbia, and General Studies students who are interested in teaching children or adolescents on the elementary or secondary level, who are considering working with young people or adults in human service agencies, or who are preparing for careers related to education. The Education Program concentration is taken in conjunction with a major in an approved field of study and may constitute a minor. Courses counted toward a major may not be doubly counted for a minor.

Interested students should consult with the Education Program faculty in 336 Milbank, and obtain an information packet and application, along with the Admissions Policy. Enrollment for student teaching is limited. Applicants are accepted on the basis of good academic standing, evidence of interest in the field of education, and capacity for growth in areas vital to the teaching-learning experience. Students may apply for admission during the sophomore year and no later than the first Monday in October in the autumn term of the junior year. See Admissions Policy.

The Education Program is approved by the New York State Education Department. Graduates of the Program are recommended for New York State Provisional Certification which makes them eligible for membership in the Interstate Certification Agreement, a reciprocal certification arrangement among thirty-one states. Consistent with the program requirements, certification is based on demonstration of competency in both academic and field settings. Students must pass the National Teachers Exam as part of the certification process. Some modifications in internships and student teaching will be effective September 2, 1993, to meet revised New York State regulations.

Elementary School Program

This program leads to the New York State Provisional Common Branch Certificate (K-6). Students participating in the elementary program must complete the following course of study:

One Psychology course, chosen from among:

Psychology BC 1105 or BC 1107	<i>Psychology of Learning</i>
Psychology BC 1127 or BC 1129	<i>Developmental Psychology</i>
Psychology BC 1130 or BC 1132	<i>Human Memory and Learning</i>
Psychology BC 2134	<i>Educational Psychology</i>

One Foundations course, chosen from among:

Philosophy V 3758	<i>Philosophy of Education</i>
Sociology V 3225	<i>Sociology of Education</i>
Education BC 2032	<i>Contemporary Issues in Education</i>
History BC 3461	<i>Education in American History</i>

A third course from either of the above categories, and the methods course with practicum:

Education BC 2052	<i>Seminar in Methods of Elementary School Teaching</i>
Education BC 2055	<i>School Practicum</i>

During the Spring Term of their junior year, all students entering the elementary education program take Education BC 2052, and co-requisite, Education BC 2055. BC 2052 and BC 2055 are prerequisites to elementary student teaching.

Secondary School Program

Programs leading to the New York State Provisional Secondary Certificate (7-12) are offered in the fields of English, Foreign and Ancient Languages, Mathematics, the Sciences, and Social Studies. Students participating in the secondary program must complete the following course of study:

One Psychology course, chosen from Psychology BC 1105 or BC 1107; BC 1127 or BC 1129; BC 1130 or BC 1132; or BC 2134; and

The methods course with practicum:

Education BC 2062	<i>Seminar in Secondary School Curriculum Development</i>
Education BC 2055	<i>School Practicum</i>

All students entering the secondary education program take this methods course which covers principles and methods for teaching English, Social Studies, the Sciences, Mathematics, and Ancient and Foreign Languages, and School Practicum, a classroom internship each week. Education BC 2062 and Education BC 2055 are prerequisites to secondary student teaching.

All senior students in the Elementary or Secondary Education Program enroll concurrently in the following two courses:

Education BC 3063	<i>Teaching in the Elementary or Secondary Schools</i>
Education BC 3064	<i>Seminar in the Teaching-Learning Process</i>

Education BC 3063 is the field-based student teaching experience which places students in a classroom five mornings a week for one semester. Student teaching provides the opportunity to develop curricular materials and, with close supervision, to implement them through practice teaching.

Education BC 3064 is a weekly seminar which provides a forum for discussions of the principles and practices of classroom teaching. The student examines the teaching experience and the interrelationships between the subject area, child and adolescent development, the role of the school in society, and the teacher as a decision-maker.

Student teaching and the seminar should be registered as Education BC 3063x and BC 3064x in the Autumn Term, or Education BC 3063y and BC 3064y in the Spring term. No more than two other courses be taken in addition to student teaching and the seminar. No student with incompletes may student teach.

Senior year student teaching may conflict with other training opportunities at Barnard (e.g., Psychology BC 3465, BC 3466, assisting at the Center for Toddler Development). Students with these interests should arrange their schedules appropriately.

REQUIREMENTS FOR THE MINOR

The minor requires a minimum of six courses: Education BC 3063, Education BC 3064, a methods course and the practicum course, and two others from those courses cited above, but not counted towards the major.

COURSES OF INSTRUCTION

EDU BC 2032y

Contemporary Issues in Education

Study of controversial topics confronting education today and the relation to contemporary society. Equity in learning experiences for girls and boys, the disabled, bilingual and gifted students will be examined. The impact of computers, technology, and values teaching on schooling will be addressed. Observation in classroom required. —S. Sacks
4 points. Not offered in 1992-93.

EDU BC 2052y

Seminar in Methods of Elementary School Teaching

Methods of teaching reading and mathematics and techniques for integrating the core subjects into the elementary curricula examined through the experience of working with children in an elementary school classroom and the weekly Barnard seminar. —K. Wilcox

This course should be taken in the Spring Term of the junior year with corequisite BC 2055.

Prerequisite to student teaching in the elementary grades. Open to Education program applicants and others with permission of the instructor.

4 points. W 2:30-4:30

EDU BC 2055y

School Practicum

A school-based opportunity to investigate educational theory and methodology in practice through involvement in assigned elementary or secondary New York City Public Schools. Supervised classroom experiences interrelate with co-requisite Methods seminars to provide an understanding of teaching and learning processes through participant-observation of 6 hours per week.

Corequisite: BC 2052y or BC 2062y.

2 points. Hours to be arranged.

EDU BC 2062y

Seminar in Secondary School Curriculum Development

Theory and practice of developing secondary school curricula through classroom observations and participation in weekly seminars. Emphasis on analysis of pedagogical strategies appropriate to specific disciplines. —S. Braunstein

This course should be taken in the Spring Term of the junior year with co-requisite BC 2055.

Prerequisite to student teaching in the secondary schools. Open to Education Program applicants and others with permission of the instructor.

4 points. W 2:30-4:30

EDU BC 3063x, y

Teaching in the Elementary or Secondary Schools

Student teaching: classroom teaching in elementary or secondary schools and exploration of the interrelation between process, content, and values in the educational experience. Student teaching requires a minimum of 20 class periods per week, each morning for one semester of the senior year. —Staff

Prerequisite: Admission to Education Program.

Corequisite: BC 3064. Both BC 3063 and BC 3064 are required for teaching certification. Enrollment limited to 28.

4 points. Hours to be arranged.

EDU BC 3064x, y

Seminar in the Teaching-Learning Process

Examination of principles of classroom teaching and educational process in our society. This seminar accompanies student teaching and provides guidelines for teaching reading and subject areas and workshop experiences related to the learning supervision, conferences and video-taping. Seminar sessions include discussion of drug, alcohol, and child abuses. —S. Sacks

Prerequisite: Admission to Education Program.

Corequisite: BC 3063. Enrollment limited to 28.

4 points. M 2:10-4:00

History HIS BC 3461y

Education in American History

A consideration of the place educational institutions, educational ideas, and educators have played in American life. Emphasis will be on the connection between education and social mobility. —N. Woloch

Permission of the instructor required.

4 points. Tu 2:10-4:00

Philosophy PHI V 3758x

Philosophy of Education

Philosophical presuppositions of intellectual and moral education. Selected readings from Plato, Augustine, Rousseau, Dewey and others.

—R. Myers

3 points. M W 4:10-5:25

Sociology SOC V 3225x
Sociology of Education

Social organization of education in the United States and its effects. Examines schools as agents of socialization; the contribution of education to social equality and inequality; schools as formal and informal organizations; teachers and students;

and the politics of education including case studies of desegregation, decentralization, and public versus private schooling.

—K. Neckerman

3 points. Tu Th 10:35-11:50

COOPERATING TEACHER PARTICIPANTS FOR 1991-1992

P.S. 75

Jose Alvarado
 Suzette Freedman

P.S. 84

Janet Foster
 Melissa Hart
 Susan Knaster

P.S. 87

Starrett Pierson

P.S. 166

Terry Miller
 Monica Peña

Hunter High School

English:
 Nell Scharff
 Nan Ascher

John F. Kennedy High School

English:
 Linda Habib
Social Studies:
 Jean Fields
 Richard Levine
 Mike Muccigrosso

Stuyvesant High School

English/Writing:
 Lydia Schulman
Environmental Science:
 Bert Beiderman

Professors: Elizabeth Dalton² (Director of Writing), Mary Gordon (Millicent C. McIntosh Professor), Maire Jaanus, Joann Ryan Morse², Robert G. O'Meally (Adolph S. & Effie Ochs Professor of English & American Studies), Remington Patterson (Chair), Anne Lake Prescott¹

Adjunct Professors: Paul Berman (Theatre), Ann Birstein

Associate Professors: James Basker, Christopher Baswell, Celeste Schenck¹, William Sharpe (Director of First Year English)

Adjunct Associate Professors: Frank Brady, Katha Pollitt, Nahid Rachlin, Elizabeth Swain (Theatre)

Assistant Professors: Brenda Gross, Kathryn Humphreys, Paula Loscocco, Nancy Piore, Cary Plotkin, Erik Ryding, Aaron Schneider, Timea Szell

Adjunct Assistant Professors: Dare Clubb, John Pagano

Associate: Quandra Prettyman

Lecturers: Constance Brown, Robert Clark, Patricia Denison, Margaret Ellsberg, Anita Soloway

Instructors: Constance Colby, James Runsdorf, Wendy Steiner, Elizabeth Stewart

Assistant: Constance Budelis

¹Absent on leave 1992-93

²Absent on leave Spring Term

The offering in English is designed to foster good writing, effective speaking, and heightened understanding of texts that enrich our culture.

Students majoring in English are encouraged to develop their responsiveness to the literary imagination and their sensitivity to literary form through disciplined attention to language and to critical and scholarly methods.

Non-majors may satisfy the distribution requirement in literature by electing appropriate courses listed under Language and Literature.

REQUIREMENTS FOR THE MAJOR

A major program consists of at least 10 courses in sequence:

1. In the sophomore or junior year, the student will complete three required courses: an introduction to the methods of literary analysis (BC 3193, *Critical Writing*), and an introduction to literary works of the Renaissance and the Enlightenment (BC 3159-BC 3160, *The English Colloquium*); for possible substitutions see BC 3159, below.
2. In addition, she will complete five advanced courses so distributed as to extend her knowledge of English and American literature of different periods. At least two of these must be in literature before 1900 (BC 3140 (Sec.2), 3141, BC 3154-BC 3179). She may select two of the five from courses BC 3103-BC 3145.
3. As a senior, she will complete advanced work in two seminars (BC 3997, BC 3998). For one of these seminars, a qualified senior major may request permission to substitute a Special Project in Writing, Speech, or Theatre (see BC 3996x, BC 3996y) or Independent Study (see BC 3999x, BC 3999y).

REQUIREMENTS FOR THE MINOR

A minor consists of at least five English courses: BC 3154 or BC 3155, Chaucer, or BC 3163 or BC 3164, Shakespeare, or BC 3167, Milton, two additional courses in literature before 1900 (BC 3141 and BC 3154-BC 3179); and two electives.

American Literature

Those wishing to concentrate in American literature should consult Professor O'Meally. In addition to ENG BC 3159, 3160 (or appropriate substitutes) and 3193, an American concentration consists of 3179, either 3180 or 3182, one other American literature course, and one senior seminar with a focus on American literature. (The department requires two senior seminars for the major.) Of the remaining electives, one must be in English literature before 1900.

COURSES OF INSTRUCTION

INTRODUCTORY

ENG BC 1201x, y **First-Year English**

Practice in reading and writing through close examination of texts, regular assignments in composition, and discussion; frequent individual conferences with the instructor.

—Director and Staff

Prescribed for all first year students. May not be taken for pass/fail.

3 points. Consult Department bulletin board for section times.

ENG BC 1202x, y **Special Studies in Writing**

For students who want additional work in writing. Class workshops, individual assignments, weekly conferences. Particularly recommended for those whose first language is not English.

Permission of the instructor required.

May only be taken for pass/fail.

3 points.

x: Sec. 1 M W 11:00-2:15 —A. Stavchansky

Sec. 2 Tu Th 9:10-10:25 —A. Soloway

y: Sec. 1 M W 11:00-2:15 —A. Stavchansky

Sec. 2 Tu Th 10:35-11:50 —A. Soloway

WRITING

Registration in each course is limited and the written permission of the instructor is required; please file signed departmental registration blanks with Mrs. Budelis (417 Barnard Hall). Two writing courses may not be taken concurrently. A writing concentration consists of at least two writing courses, ENG BC 3996 or 3999, and (in addition to the 10 courses in the major) one more course, which may be a literature course, a creative writing course, or Arts BC 3031. Those wishing to concentrate in writing should consult Professor Dalton.

ENG BC 3101x

The Writer's Process: A Seminar in the Teaching of Writing

An exploration of theory and practice in the teaching of writing, designed for students who plan to become Writing Fellows at Barnard (see

page 39). Students will read current theory and consider current research in the writing process, and work with other students on their writing.

—N. Piore

Application process and permission of the instructor.
3 points. Tu Th 1:10-2:25

ENG BC 3103x, 3104y **Exposition**

Sections I and II (Autumn and Spring Terms): English composition above the first year level. Techniques of argument and effective expression. Weekly papers. Individual conferences. Section III (Spring Term): Journalism and popular writing; methods of news writing and news judgment.

3 points.

x: Sec. 1 M 2:10-4:00 —Q. Prettyman

Sec. 2 W 12:00-1:50 —J. Runsdorf

Sec. 3 Th 12:00-1:50 —A. Soloway

y: Sec. 1 M 2:10-4:00 —Q. Prettyman

Sec. 2 W 2:10-4:00 —A. Schneider

Sec. 3 W 4:10-6:00 —F. Brady

ENG BC 3105x, 3106y **Fiction and Non-Fiction**

Short stories and personal narrative.

Prerequisite: Demonstration of some creative writing ability.

3 points. x: Th 4:10-6:00 —E. Dalton

y: W 2:10-4:00 —T. Szell

ENG BC 3107x, 3108y **Experiments in Writing**

An exploration of various styles and techniques of fiction and other narrative forms. Submit writing sample to instructor.

3 points.

x: Tu 2:10-4:00 —A. Birstein

y: Sec. 1 Tu 2:10-4:00 —A. Birstein

Sec. 2 Th 2:10-4:00 —N. Rachlin

ENGLISH

ENG BC 3110x

Poetry Writing

Varied assignments designed to confront the difficulties and explore the resources of language through imitation, allusion, free association, revision, and similar techniques. —K. Pollitt
3 points. M 2:10-4:00

ENG BC 3111x, 3112y

Story Writing

Advanced work in writing, with emphasis on the short story. —M. Gordon

Prerequisite: Some experience in the writing of fiction.

3 points. Tu 4:10-6:00. Conference hours to be arranged.

ENG BC 3113x, 3114y

Dramatic Writing

Studies in playwriting: reading, analysis, and practice. —D. Clubb

3 points. x: W 12:00-1:50. Not offered Spring 1993.

SPEECH

Registration in each course is limited and permission of the instructor required.

ENG BC 3121x

The Uses of Speech

An introduction to effective formal and informal communication including interviewing and public speaking. Emphasis on self-presentation, research, organization, audience analysis, and gender influences. —B. Gross

3 points. Not offered in 1992-93.

ENG BC 3124y

Oral Interpretation of Literature

The study of literature through performance.

Dramatic readings, research and analysis of prose, poetry, and drama. —B. Gross

3 points. M 4:10-6:00

ENG BC 3127x

Public Speaking: Language and Politics

Effective strategies for public speaking, particularly in the political arena. Emphasis on political debating, speechwriting, media interviews, and the fundamentals of argumentation. —B. Gross

3 points. Not offered in 1992-93.

ENG BC 3128y

Persuasion

Theory, practice, and analysis of persuasive speaking; the use of evidence, opinion, logic, and audience motivation to change beliefs, attitudes, and behavior. —B. Gross

3 points. Not offered in 1992-93.

THEATRE

Registration in each course is limited. Students may sign up for theatre courses outside the Theatre Office, Room 230 Milbank Hall. English majors interested in a Theatre concentration should consult Professor Berman or Professor Swain.

ETR BC 3131x

History of Theatre:

The Greeks to the Italian Renaissance

Study of theatre literature and practice in the Greek and Roman periods through the Middle Ages and the Italian Renaissance. —P. Berman, E. Swain

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55

H

ETR BC 3132y

History of Theatre:

Shakespeare to the 19th Century

Study of theatre literature and practice from the Elizabethan period to the 19th century. Focus includes Shakespeare, the English Restoration, Spanish, French, and German drama of the period. —P. Berman, E. Swain

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55

H

ETR BC 3133x

History of Theatre: Modern Period

Major developments of the modern period in drama, scenic approaches, stage directing and acting. Topics include the work of Stanislavski, Meyerhold, Artaud, Brecht, Grotowski, and Brook, the innovations of Craig, Appia, and Copeau, and the drama of Chekov, Ibsen, Strindberg, Shaw, and other playwrights up to modern times. —P. Berman, E. Swain

Enrollment limited to 40 students.

3 points. Not offered in 1992-93.

H

ETR BC 3134x

Seminar on Contemporary

British Political Theatre

An examination of plays and production approaches employed by the post-1968 British political theatre movement focusing on such authors as Bond, Hare, Edgar, Poliakov, Keefe, and Churchill. Antecedents such as Shaw and Brecht will be discussed to provide a broader context in order to explore methodology and the social climate conducive to political theatre. —E. Swain

Prerequisite: One semester of theatre history or permission of the instructor.

4 points. Offered in 1993-94.

H

ETR BC 3135y

Seminar on 19th-Century Social Drama

Late 19th-century social drama in the context of earlier melodrama. The shifting relationship between the visual and the verbal in the theatre and its implications for social and theatrical change. Playwrights include Jerrold, Scribe, Mowatt, Taylor, Robertson, Ibsen, Pinero, Wilde, Shaw, and Robins. —P. Denison
4 points. Not offered in 1992-93. H

ETR BC 3136y

Seminar on Shakespeare in Performance

The dramatic text as theatrical event. Differing performance spaces, production practices, and cultural conventions promote differing modes of engagement with dramatic texts. We will explore Shakespeare's plays in the context of actual and possible performances from the Renaissance to the 20th century. —P. Denison
Enrollment limited to 20 students.
4 points. Not offered in 1992-93.

ETR BC 3137y

Seminar on Restoration and 18-Century Drama

Performance conventions, dramatic techniques, and cultural contexts from 1660 to 1800. Playwrights include William Wycherley, Aphra Behn, Mary Pix, Susannah Centlivre, George Etherege, William Congreve, John Gay, and Richard Sheridan. —P. Denison
Enrollment limited to 20 students.
4 points. Tu 4:10-6:00 H

ETR BC 3138y

Seminar on American Political Drama

Explores selected American political dramas from different periods, examining developments in style, structure, production, purpose, and sophistication. Looks at theatrical responses to the Depression, the McCarthy hearings, the Vietnam War, the Civil Rights movement, feminism, and AIDS. Playwrights include Gertrude Stein, Clifford Odets, Arthur Miller, Lorraine Hansberry, Megan Terry, Maria Irene Fornes, David Hwang, and David Rabe. —B. Gross
4 points. W 4:10-6:00 H

LANGUAGE AND LITERATURE

ENG BC 3140x

Seminars on Special Themes

Registration may be limited.
3 points.

2. Explorations of Black Literature: 1760-1890

Poetry, prose fiction and nonfiction, with special attention to the slave narrative. Includes

Wheatley, Douglass, and Jacobs, but emphasis will be on less familiar writers such as Brown, Harper, Walker, Wilson, Forten. Works by some 18th-century precursors will also be considered. —Q. Prettyman
Tu Th 2:40-3:55 H

18. Through the Looking Glass: A Survey of Children's Literature

A survey of children's literature from origins in early legend and myth through Golden Age classics of 18th and 19th centuries to contemporary works. Consideration of new critical interpretations as well as discussions of purely literary aspects. —C. Colby
M W 4:10-5:25 H

21. The Jazz Shape of American Culture

According to Ralph Ellison, many expressions of American culture — from sports to tall tales to skyscrapers — are "jazz-shaped." In this course, we will consider this proposition and broad questions of what and how this music means. Readings will include works by and about jazz musicians as well as poetry and fiction that is influenced by "the music." We will read Louis Armstrong, Danny Barker, Billie Holiday, Sidney Bechet and Albert Murray, Eileen Southern, James Baldwin. —R. O'Meally
Tu Th 1:10-2:25 H

23. Transformation, Transgression, and Desire

Narratives of shape-shifting, ambivalent identity, cross dressing and gender reversal, in high culture from Ovid to the present. The impact of desire, in various forms, on notions of the self. Texts will include the *Metamorphoses*, medieval romance, Shakespeare's *As You Like It* and *The Winter's Tale*, Spenser's *Faerie Queene*, Balzac's *Sarrazine*, Woolf's *Orlando*, Eliot's *Wasteland*. —C. Baswell
Tu Th 9:10-10:25 H

BC 3140y

13. Jane Austen

Marriage, money, and morals in the world of Austen's novels. Her vision of the individual within society. —A. Soloway
Tu Th 9:10-10:25 H

20. Middle Fictions: Long Stories, Short Novels, Novellas

Discussion of fictions between 60-100 pages in length. Authors will include James, Joyce, Nabokov, Cather, Toomer, Welty, West, Porter. —M. Gordon
Tu Th 1:10-2:25 H

22. Women and the Profession of Letters
An exploration of the lives and works of five major women writers, with special attention to their response to conditions of authorship, their participation in the public world of literature, and their contributions to a tradition of women of letters. Authors: Aphra Behn, Mary Wollstonecraft, Jane Austen, George Eliot, Virginia Woolf. —J. Basker
M W 2:40-3:55 H

ENG BC 3141x, 3142y
Major English Texts
A chronological view of the variety of English literature through study of selected writers and their works. Autumn: Beowulf through Dryden. Spring: Swift to present. —M. Ellsberg
Guest lectures by members of the department.
3 points. M W 11:00-12:15 H

English-Women's Studies EWS BC 3144y
Minority Women Writers in the United States
Literature of 20th-century minority women writers in the United States, with emphasis on works by Asian, Black, Hispanic, and Native American women. The historical and cultural as well as the literary framework. —Q. Prettyman
Permission of the instructor required.
3 points. Tu Th 2:40-3:55 H

ENG BC 3154x
The Early Chaucer
Book of the Duchess, Hous of Fame, Legend of Good Women, and Parlement of Foules, with emphasis on *Troilus and Criseyde*; related texts by other writers. —T. Szell
3 points. Tu Th 4:10-5:25 H

ENG BC 3155y
Chaucer
The Canterbury Tales.—C. Baswell
3 points. Not offered in 1992-93 H

ENG BC 3158y
Medieval Literature
Readings center on the Arthurian tradition: English roots, French and English developments, psychoanalytical, anthropological, and political approaches. —C. Baswell
3 points. Tu Th 9:10-10:25 H

ENG BC 3159x-3160y
The English Colloquium
Major writers and literary works of the Renaissance and the Enlightenment examined in terms of leading ideas in those periods.
Required of majors in the junior year. Any student who

wishes may substitute 3 courses, BC 3141, 3163 or 3164, 3165-3169 and BC 3173-3174. One of these may also count as a pre-1900 distribution requirement.
4 points.

1. Imitation and Creation
New ideas of the mind's relation to the world. New perspectives, the emergence of new forms, experimentation with old forms, and the search for an appropriate style.
—x: J. Morse. y: C. Plotkin
M 2:10-4:00

3. Skepticism and Affirmation
Humanism, reformation, and revolution; the limits of human knowledge; the problem of evil; visions of perfection; reason and revelation. —P. Loscocco
W 2:10-4:00

6. System and Subversion
How writers of the Renaissance and Enlightenment reinforce or challenge intellectual, political, and socio-sexual systems; the question of authority; reason and faith; order and revolution. —x: E. Ryding. y: M. Jaanus
Tu 2:10-4:00

ENG BC 3163x, 3164y
Shakespeare
A critical and historical introduction to the comedies, histories, and tragedies of Shakespeare. —R. Patterson
3 points. M W 11:00-12:15 H

ENG BC 3165x
The Elizabethan Renaissance
Literature in the age of Elizabeth I: Sidney, Spenser, Shakespeare, and their contemporaries. Songs, the love sonnet, prose fiction, satire. Some attention to music and visual imagery.
—E. Ryding
3 points. Tu Th 10:35-11:50 H

ENG BC 3166y
Seventeenth-Century Prose and Poetry
Classical traditions, Christian beliefs, the new science, and the literary imagination: thought and style in English literature from Bacon, Donne, and Jonson to Marvell, Browne, and Bunyan. —E. Ryding
3 points. Tu Th 2:40-3:55 H

ENG BC 3167y
Milton
Close reading and critical study of *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*, with

some attention to minor poems and prose.

—P. Loscocco

3 points. Tu Th 10:35-11:50

H

ENG BC 3169y

English Drama: 900-1642

English drama from its beginnings to the closing of the theatres. Medieval plays, the Tudor interlude, the major plays of the English Renaissance (excluding Shakespeare), with emphasis on Marlowe, Jonson, and Webster. —R. Patterson

3 points. Not offered in 1992-93.

H

ENG BC 3171x

The Novel

The central English tradition, including works by Defoe, Richardson, Lewis, Austen, Brontë, Dickens, George Eliot, and Hardy. —M. Jaanus

3 points. M W 1:10-2:25

H

ENG BC 3173x

Eighteenth-Century Literature:

Satire and Comedy

Satire and comedy in their literary and historical contexts. Readings in verse satire, parody, comic drama, and the novel. Authors to include Dryden, Behn, Rochester, Pope, Swift, Fielding, Johnson, Smollett, Sterne, Burney, Austen, and others. —J. Basker

3 points. Tu Th 10:35-11:50

H

ENG BC 3174x

Eighteenth-Century Literature, 1740-1800

Tradition and innovation in a variety of forms, including works by Johnson, Boswell, Goldsmith, Sheridan, Fielding, Sterne, Wollstonecraft, Burns, and Blake. —J. Basker

3 points. Not offered in 1992-93.

H

ENG BC 3176x

English Romanticism

Two generations of Romantic writers in their intellectual context, with reference to contemporary movements in philosophy, music, and the plastic arts. —C. Plotkin

3 points. Tu Th 2:40-3:55

H

ENG BC 3177x

The Victorian Age in Literature

The origins of modern culture in Victorian England: urbanization, industrialism, evolution, the women's movement, as seen in works by Dickens, Gaskell, Ruskin, Carlyle, Nightingale, Carroll, Eliot, Gosse, and others. Special attention to developments in mass culture: photography, advertising, tourism. —W. Sharpe

3 points. Not offered in 1992-93.

H

ENG BC 3178x

Victorian Poetry and Criticism

Poetry, art, and aesthetics in an industrial society, with emphasis on the role of women as artists and objects. Poems by Tennyson, Arnold, Christina and D.G. Rossetti, Swinburne, and Elizabeth and Robert Browning; criticism by Ruskin, Arnold, and Wilde; paintings by the Pre-Raphaelites and Whistler; photographs by J.M. Cameron. —W. Sharpe

3 points. Tu Th 1:10-2:25

H

ENG BC 3179x

American Literature before 1865

The formation and development of American literary traditions. Writers include: Bradstreet, Edwards, Irving, Sedgwick, Emerson, Thoreau, Poe, Hawthorne, Melville, Stowe. —K. Humphreys

3 points. M W 1:10-2:25

H

ENG BC 3180y

American Literature, 1865-1914

Realism, naturalism, and the beginning of modernism in American literature. Writers include Twain, Howells, James, Dreiser, Wharton, DuBois. —K. Humphreys

3 points. M W 1:10-2:25

H

ENG BC 3181x

American Fiction

American fiction of the 19th and 20th centuries. Works by Melville, Hawthorne, James, Cather, Wharton, Hemingway, Faulkner, and others.

3 points. Not offered in 1992-93.

H

Interested students should consider ENG W 4621y, *African-American Texts: The Harlem Renaissance and Beyond*, R. O'Meally, 3 points. Tu Th 10:35-11:50

ENG BC 3182x

American Literature, 1914 to the Present

Modernism and post-modernism in American literature. Writers include Fitzgerald, Malamud, Morrison and others. —R. O'Meally

3 points. Tu Th 10:35-11:50

H

ENG BC 3185y

Modern British and American Poetry

The poetry of three decades, 1915-1925, 1955-1965, 1980-1990. Poems by Yeats, Eliot, Williams, Millay, Larkin, O'Hara, Plath, Rich, Walcott, and others. —W. Sharpe

3 points. Tu Th 10:35-11:50

H

ENG BC 3186x

Modern Drama

The modern theatre and its makers from Ibsen to the present. —E. Dalton

3 points. Tu Th 1:10-2:25

H

ENGLISH

ENG BC 3187y **American Writers and** **Their Foreign Counterparts**

Selected 19th- and 20th-century American, European, and English works. Flaubert, James, Proust, Gide, Faulkner, and others. —E. Dalton
3 points. Not offered in 1992-93. H

ENG BC 3188x **The Modern Novel**

Works by Hardy, James, Conrad, Lawrence, Joyce, and others. —J. Morse
3 points. M W 11:00-12:15 H

ENG BC 3189x **Post-Modern Literature**

Writers since 1945, primarily English and American, and concepts of post-modern culture. Readings include Beckett, Borges, Pinter, Nabokov, Barthelme, and others. —E. Dalton
3 points. Not offered in 1992-93.

ENG BC 3191x, y **The English Conference**

Various topics presented by visiting scholars in courses that will meet for three or four weeks during each semester. Topics, instructors, and times will be announced by the department.
—Visiting faculty
To be taken only for pass/fail.
1 point.

ENG BC 3193x, y **Critical Writing**

The purpose of the course is to provide experience in the reading and analysis of literary texts and some knowledge of conspicuous works of literary criticism. Frequent short papers. Required of all majors before the end of the junior year. Sophomores are encouraged to take it in the Spring Term even before officially declaring their major. Transfer students should plan to take BC 3193 in the Autumn Term. —Staff
Registration in each section is limited.
4 points.

- x: Sec. 1 M 2:10-4:00
Sec. 2 M 4:10-6:00
Sec. 3 W 4:10-6:00
Sec. 4 Th 4:10-6:00
y: Sec. 1 M 2:10-4:00
Sec. 2 M 4:10-6:00
Sec. 3 Tu 4:10-6:00
Sec. 4 W 4:10-6:00
Sec. 5 Th 2:10-4:00

ENG BC 3194x **Critical and Theoretical** **Perspectives on Literature**

1. A History of Criticism

A primarily chronological survey of major critical texts from ancient Greece to modern times. Authors include Aristotle, Sidney, Johnson, Coleridge, Freud, Frye, Sontag, Culler. —C. Schenck
3 points. Not offered in 1992-93.

2. Literary Theory

Contemporary theory and its revolutionary redefinition of certain fundamental concepts: the body, the image, the word, pleasure, love, gender, the unconscious, and the imagination. —M. Jaanus
3 points. Not offered in 1992-93.

3. Psychoanalytic Approaches to Literature

Literary expression in the light of psychoanalytic thought; readings in Freud and other psychoanalytical writers. Shakespeare, Keats, James, Kafka, Lawrence, Dostoevsky, and others. —E. Dalton
Not offered in 1992-93.

4. Postmodern Texts and Theory

Crisis, challenge, trauma, and desire in major contemporary literary and theoretical works. —M. Jaanus
3 points. M W 4:10-5:25 H

ENG BC 3996x, y **Special Project in Writing,** **Speech, or Theatre**

A senior major who has completed two courses in writing, speech, or theatre with distinction and who wishes to substitute a special project for one of the required senior seminars may request permission to register for a third course in her special field (3 points) and for 3996x or 3996y (1 point). Students wishing to concentrate in writing must take 3996 or 3999.
Registration is limited. Permission of the instructor and of the department chair are required.
1 point.

ENG BC 3997x, 3998y **Senior Seminars: Studies in Literature**

Required of all majors, these seminars are designed to broaden knowledge of periods, writers, works, genres, and theories through readings, discussion, oral reports, and at least one significant research paper. Written permission of the instructor required.
Enrollment limited to seniors. 4 points.

ENG BC 3997x

9. Epic and Romance

Epic and romance, from the classical period to the 20th century, and study of their competition and mutual influence. Readings from Latin epic, Chaucer, Malory, Spenser, Milton, the novel, science fiction. —C. Baswell

Th 4:10-6:00

18. Body and Language

An examination of major discourses on corporeality and the body's cultural significance.

—M. Jaanus

Tu 2:10-4:00

26. Ulysses and Its Background

A study of Joyce's comic epic and its sources: Homer, Rabelais, Shakespeare, Swift.—J. Morse

W 2:10-4:00

**30. The Rise of the Woman of Letters,
Aphra Behn to Jane Austen**

The lives and works of women writers 1660-1800. Readings by Aphra Behn, Anne Finch, Elizabeth Rowe, Sarah Fielding, Frances Burney, Mary Wollstonecraft, Hannah More, and Jane Austen, among others. —J. Basker

Tu 4:10-6:00

31. James and Wharton

Will focus on the novels and shorter fictions of Edith Wharton and Henry James in the context of the literary relationship between them. Works include *The Portrait of a Lady*, *The Age of Innocence*, *The House of Mirth*, *The Wings of the Dove*. —K. Humphreys

W 4:10-6:00

32. Victorian and Modern Drama

Drama in transition. Changing social structures and dramatic structures at the turn of the century. The relationship between convention and invention in the plays of George Bernard Shaw, Oscar Wilde, Arthur Pinero, Elizabeth Robins, Cicely Hamilton, and others.

—P. Denison

M 2:10-4:00

ENG BC 3998y

Studies in Literature

1. The Middle Ages: Images of Women

The cultural and literary construction of women, virtuous and wicked, saintly and who-rish, in the chivalric and religious narrative of the High Middle Ages, in light of a variety of contemporary critical approaches. —T. Szell

M 4:10-6:00

**2. The Renaissance: Comedy—
from Woods to City**

The evolution from Elizabethan romantic comedy to Jacobean city comedy, with emphasis on the plays of Shakespeare, Jonson, Dekker, Marston, and Middleton. —R. Patterson

Th 2:10-4:00

5. Writers on War

Perceptions of problematic wars: glorification, protest, and despair. Focus on the Trojan War and on British writing about World War II; some attention to Vietnam. —C. Brown

W 4:10-6:00

**7. American Literature: Issues of History
and Memory in American Writing**

Consideration of some ways in which American authors and their characters present their culture's past: How do we remember (and "disremember") the historical events that shape our lives? Readings by Jorge Luis Borges, Shirley Williams, Kenneth Burke, Mary McCarthy, Ralph Ellison, William Faulkner, Ishmael Reed.

—R. O'Meally

W 2:10-4:00

8. Disintegrations

The coming-apart of structures of coherence—poetic language, the family, narrative sequence, ego or selfhood, gender, civilization, Truth—from mid-Victorian England to the 20th century.

—C. Plotkin

Tu 2:10-4:00

9. The Global City

Urban literature in world context, with emphasis on non-Anglo/American writing in English. Topics include the rise of the megalopolis, the relation between "first" and "third" world cities, internationalism vs. regionalism, and utopian urban planning. Authors include Naipaul, Achebe, Desai, Emecheta, Morris, Atwood, Gibson, and others. —W. Sharpe

Tu 4:10-6:00

ENG BC 3999x, y

Independent Study

A senior major who wishes to substitute Independent Study for one of the two required senior seminars should consult Professor Dalton about qualifications and requirements.

Registration is limited. Written permission of the instructor and of the department chair are required.
4 points.

HUM V 3003x- V 3004y
Readings in European and American
Literature and Philosophy of the 19th and
20th Centuries

New visions of self, society, and God. Passion, anxiety, and faith. The reconstruction of moral, aesthetic, and cultural values. First-semester texts include: Wordsworth, Hegel, Whitman, Balzac, Dickens, Kierkegaard, Dostoevsky, Dickinson, Flaubert, Ibsen, Nietzsche. Second-semester texts include: Freud, Proust, Rilke, Duras, Lispector, Woolf, Colette, Camus, Artaud, Lawrence, Márquez. —x: R. Gustafson; y: M. Jaanus

[Note: Does not count toward English major.]

Prerequisite: Grade of B or better in HUM C 1001-1002 or permission of the instructor.

3 points. M W 1:10-2:25 H

Writers on Writing at Barnard

A summer workshop program designed for highly motivated students who want to study closely with distinguished professional writers. Classes in Fiction, Nonfiction, Poetry, Writing for Young Readers, and Autobiography/Memoir will meet twice a week during the month of June. Two credits offered per course. Limited enrollment. Individual conferences with the instructor. Applications available in the Office of Special Academic Programs.

ENVIRONMENTAL SCIENCE

334 Milbank Hall

854-5120, 3589

Lecturers: Peter Bower (Acting Chair), Eric Katz

Laboratory Associate: Joseph Liddicoat

Environmental Science studies the energy and material levels and pathways of natural earth systems in order to assess the effect of exceedances of these levels caused by the inadvertent impacts of human technologic systems, such as the exposure to radioactive materials, release of toxic substances, carbon dioxide build-up, elimination of species, and despoliation of the landscape. It provides a rational scientific basis for the management of earth space and resources. Environmental Science combines the traditional sciences into a holistic view of natural systems, especially with regard to their connections to human designed systems. While dependent on the findings of the natural sciences to describe the separate pieces of environmental systems, it uncovers convergent relations that reflect coherences among the disciplines. The holism of environmental science is a thinking process that focuses on a unique dynamics of life on earth and presents this material as an organized body of knowledge.

The curriculum recognizes the need for broad and well-trained scientists to cope with the complexities of contemporary and anticipated disruptions of environmental systems. Majors must acquire a real-world understanding of hybrid built and natural systems, as well as the content and methodology of science. They will study the theoretical and applied aspects of environmental science and will be exposed to a range of current and future problems.

REQUIREMENTS FOR THE MAJOR

- I. Environmental Science BC 1001, BC 1002. *Advanced courses in Environmental Science* or another related science may be substituted for this requirement with permission of the chairman.
- II. At least one course in Chemistry and five other courses in the natural sciences (Biology, Chemistry, Geology or Physics). At least two of these must include labs.
- III. Four courses to be selected from the following:

ENV BC 3015	<i>Chemical Cycles in the Environment</i>
ENV BC 3016	<i>Environmental Measurements</i>
ENV BC 3019	<i>Energy and Mineral Resources</i>
ENV BC 3020	<i>Renewable Resources</i>
ENV BC 3022	<i>Environmental Case Studies</i>
ENV BC 3035	<i>Environmental Hazards and Disasters</i>
ENV BC 3039	<i>Environmental Impacts of Development</i>
ECO BC 3039	<i>Natural Resource and Environmental Economics</i>

Graduating seniors are required to submit a report on an environmental research project either by taking Environmental Science BC 3997/3998 or as an extension of another course. Majors in Environmental Science are encouraged to take courses in the social sciences in order to become familiar with the languages and approaches of these disciplines to environmental issues.

REQUIREMENTS FOR THE MINOR

Five courses are required: Environmental Science BC 1001, BC 1002, and electives that form a coherent program in conjunction with the student's major field.

COURSES OF INSTRUCTION

ENV BC 1001x, 1002y **Environmental Science**

Global and local dynamics of natural systems of the planet Earth, and their capacities to satisfy human demands for land, food, water, energy, minerals, open space, waste disposal. Impact of population growth, technology, and urban lifestyles on planetary and regional equilibria.

Autumn Term: physical processes of the atmosphere, hydrosphere, pedosphere, and lithosphere, and their vulnerabilities to human activities. *Spring Term:* ecosystem analysis of local and global processes in the biosphere, geographical ecology and biome classification; disturbances of the integrity of the environment by the technologies of modern agriculture and urban-industrial processes; remedial measures and planning a sustainable ecology for the future. —P. Bower

Prerequisites: Passing grade on Quantitative Reasoning test or equivalent. Enrollment limited.

Students must sign up for lab sections in 331 Milbank during the program planning period of the previous term. Laboratory fee \$30.

4.5 points. Lecture M W 11:00-12:15

Laboratory: One session of 3 hours per week to be arranged.

ENV BC 3015y **Chemical Cycles in the Environment**

A detailed study of the cycles of chemical species in the environment including carbon, nitrogen, phosphorus and sulfur compounds, major cations, trace metals, and organic pollutants. Emphasis will be placed on human-induced perturbations of natural cycles.—W. Broecker

Prerequisites: Chemistry BC 1601 and Environmental Science BC 1001, BC 1002 or equivalent or permission of the instructor. Alternate years.

3 points. Not offered in 1992-93.

ENV BC 3016x **Environmental Measurements**

Modern methods used in analysis of environmental samples for monitoring and research purposes. Standard and advanced techniques of air, water, sediment and soil analysis will be covered including spectrometric and chromatographic methods.

Prerequisites: Chemistry BC 1601, or equivalent and permission of the instructor. Enrollment limited to 16 students. Alternate years. *Laboratory: 2 hours per week.*

3 points. Not offered in 1992-93.

ENV BC 3019y **Energy and Mineral Resources**

A scientific description and evaluation of the current status and future of our energy and mineral resources including methods of treating wastes generated during resource production and use. —Instructor to be announced.

Prerequisites: One year college science and permission of the instructor. Alternate years.

3 points. Hours to be announced.

ENV BC 3020y **Renewable Resources**

A scientific consideration of water and soil resources including the hydrologic cycle, surface and groundwater flow, and soil genesis, classification and conservation. Agricultural systems and forestry and fisheries resources will also be analyzed.

Prerequisites: One year of college science and permission of the instructor. Alternate years.

3 points. Not offered in 1992-93.

ENV BC 3022x **Environmental Case Studies**

Investigation of the scientific aspects of particular cases that illustrate major environmental problems. Legal and social implications will also be explored. Included will be such topics as ocean dumping of sewage sludge, eutrophication of Lake Erie, acidification of German forests and PCB contamination of the Hudson River.—P. Bower

Prerequisite: Environmental Science BC 1001, BC 1002, or equivalent, or permission of the instructor. Alternate years.

3 points. Not offered in 1992-93.

ENV BC 3035x **Environmental Hazards and Disasters**

The environmental impact of war; prediction and avoidance of catastrophic events that originate in natural systems and technologic systems; response strategies to minimize damage before, during and after events such as earthquakes, floods, nuclear breakdowns. —P. Bower

Alternate years.

3 points. Tu Th 10:35-11:50

ENV BC 3039y **Environmental Impacts of Development**

Actual projects will be studied to determine environmental impacts and mitigation measures. The class will visit sites and review maps, drawings, aerial photos, environmental impact statements and community plans. Legal and econom-

ic implications and impacts on air and water quality and on architectural, aesthetic and natural resources will be considered. —P. Bower
Limited enrollment. Permission of the instructor required.

3 points. Tu Th 10:35-11:50

**Environmental Science-Philosophy
ESP BC 3025y
Ethics and Environment**

A philosophical examination of the relationship between humanity and nature with a focus on the moral justifications for environmental policies. Topics include: the utility of the natural environment, responsibilities to future generations, and the moral consideration of nature. Readings from several disciplines: philosophy, ecology, economics, political theory, and law. —E. Katz

3 points. Th 2:40-5:10

H

**ENV BC 3997x, 3998y
Senior Essay**

Research under the supervision of a faculty member for the purpose of preparing the senior thesis. The thesis may be completed in a single semester or over both semesters of the senior year. —Staff

Variable points with a maximum total of four.

Hours to be arranged.

**ENV BC 3999x, ENV BC 3999y
Problems and Projects
in Environmental Science**

Advanced laboratory and/or field studies for students who have adequate backgrounds to work independently with guidance from a member of the faculty. —Staff

Permission of the chair required.

Variable points. Hours to be arranged.

The following courses offered by the Geological Sciences Department of Columbia are of special interest to students of Environmental Science. Students should consult the Columbia Bulletin for course descriptions.

**GEY W 3001x
Time in the Earth Sciences**

—P.E. Olsen

3 points.

**GEY V 3002x
The Design and Maintenance of a Habitable Planet**

—W.S. Broecker

3 points.

**GEY V 3003y
The Earth's Climate**

—A.L. Gordon

3 points.

**GEY W 4008x
Introduction to Atmospheric Science**

—A. Del Genio

3 points.

**GEY W 4926y
Principles of Chemical Oceanography**

—H. J. Simpson

3 points.

FIRST-YEAR SEMINAR

401b Barnard Hall

854-2101

This program is supervised by the First-Year Seminar Committee:

Professor of Russian: Marina Ledkovsky

Professor of Political Science: Dennis Dalton

Professor of History: Rosalind N. Rosenberg

Assistant Professor of Economics: Cecilia Conrad

Associate Professor of English: James Basker (Director)

Instruction in the First-Year Seminar Program is provided by the following regular members of the Barnard College Faculty:

Professors: Hubert Doris (Music), Helene Foley (Classics), Sandra Genter (Dance), Morton Klass (Anthropology), Alfred Mac Adam (Spanish), Lydia Lenaghan (Classics), Joseph Malone (Linguistics), Richard Pious (Political Science), Rosalind N. Rosenberg (History)

Adjunct Professor: Theresa Rogers (Sociology)

Associate Professors: James Basker (English), Christopher Baswell (English), Irene Bloom (Asian and Middle Eastern Cultures)

Assistant Professors: Sigrid Berka (German), Catharine Coats (French), Peter Connor (French), Cecilia Conrad (Economics), Catherine Cooper (Religion), Celia Deutsch (Religion), Joel Kaye (History), Noa Latham (Philosophy), Richard Lufrano (History), Sheila McTighe (Art History), Timea Szell (English)

Senior Lecturers and Associates: Susan R. Sacks (Education), Marvin Shulman (German)

Lecturers and Other Faculty: James Crapotta (Spanish), Margaret Ellsberg (English), Nancy Piore (English), Sanya Popovic (Political Science), Quandra Prettyman (English)

Purpose and Structure

Every Barnard first-year student is required to take a First-Year Seminar during her first or second semester at Barnard. The purposes of the First-Year Seminars are threefold:

1. To develop further the essential and prerequisite skills a student brings to Barnard in the critical reading and analysis of important texts, in effective speaking, and in writing well—this last especially.
2. To develop these skills within an intellectually challenging context where students and teacher alike, through a close examination of important and relevant texts, engage in an extended consideration of a theme central to human concerns and which goes beyond departmental boundaries.
3. To develop these skills and encounter this intellectual challenge in a small-class setting with instruction by a regular member of the Barnard faculty who has chosen to participate in the program. As such, First-Year Seminars should provide entering Barnard students with an early sense of community.

Accordingly, all First-Year Seminars share a common structure:

- Each will meet twice a week in regularly scheduled class periods.
- Each will have its enrollment limited to 20 or fewer students.
- Reading assignments will consist of a maximum of six book-length assignments or their equivalent (about 2000 pages).
- Writing assignments will consist of a minimum of an assignment every other week. These assignments will vary in character (e.g., an assigned topic; a selected topic; reworking a previous assignment; editing the work of others) and length.
- The regular grading practices of the College will be followed. Upon completion of the

course, students will have an opportunity to evaluate their First-Year Seminar and to offer suggestions as to how it might be improved in subsequent offerings.

COURSES OF INSTRUCTION

The First-Year Seminar Program consists of thirty seminars, organized into five clusters:

- I. Literary Reflections on the Human Condition
- II. The Individual and the Social Order
- III. Women in Literature and Culture
- IV. Aspects of the Modern Condition
- V. Cross-Cultural Encounters

These clusters identify thematic concerns or textual emphases common to more than one seminar, while reflecting varying levels of faculty collaboration that went into the development of the individual seminars. They are also intended to facilitate the process by which a student selects the seminar of her first or second choice. (Procedures for selecting First-Year Seminars are described in the First-Year Registration materials.)

I. LITERARY REFLECTIONS ON THE HUMAN CONDITION

Each of these seminars focuses on an enduring theme or genre through a close reading of texts drawn from the sweep of ancient and modern literature.

FSM BC 1104x **The Idea of the Self**

An investigation of mainly autobiographical texts with particular attention to the terms of self-description, the self as literary subject; significant factors in the definition and realization of self; the interior and exterior life; the self as model for others. Each student will also read one 20th-century autobiography. Readings include:

Ovid, *Selections from Heroides*,
Metamorphoses, *Tristia*
 Apuleius, *The Golden Ass*
 St Augustine, *The Confessions* (selections)
 Teresa of Avila, *Life*
 Jean-Jacques Rousseau, *The Confessions*
 (selections)
 J. S. Mill, *Autobiography*
 Henry David Thoreau, *Walden*.

—Lydia Lenaghan, Classics Department
Autumn M W 2:40-3:55

FSM BC 1112y **The Ends of Time:** **Apocalypse and the Imagination**

Human thought on the subject of time obsessively looks forward to its transformation and end. Apocalypse implies both this end, and the uncovering or restoration of truth and proper order which will precede it. The seminar will consider these themes in major texts, paintings,

and films, to include:

Book of Daniel, *Revelation*
Black Elk Speaks
 Jamaica Kincaid, *Annie John*
 Virgil, *Aeneid*
 Shakespeare, *King Lear*
 Marx and Engels, *Communist Manifesto*
 Tennyson, *Idylls of the King*

—Christopher Baswell, English Department
Spring Tu Th 4:10-5:25

FSM BC 1115y **Literature and the Unspeakable**

A study of texts that dramatize the writer's struggle to meet a fundamental and abiding problem of literary art: how to capture in language the extremes as well as the subtleties of experience; how to translate images and intuitions into words; how to express that which can seem inexpressible.

Readings include:

Selected books of *The Bible*
 Shakespeare, *King Lear*
 Aphra Behn, "The Disappointment"
 Alexander Pope, "Eloisa to Abelard"
 Twain, *Huckleberry Finn*
 Eliot, *The Waste Land*
 Woolf, *Mrs. Dalloway*

Male and female slave narratives, plus selected poems by Wordsworth, Coleridge, Dickinson, Hopkins, Frost, and Yeats.

—James Basker, English Department
Spring M W 11:00-12:15

FSM BC 1127x **What I Want What I Can**

A search into the congruence of desire and fulfillment; how individuals adapt to forces — social, political and religious pressures for conformity,

FIRST-YEAR SEMINAR

demands from loved ones — that compel them to alter their expectations. Readings include:

Shakespeare, *The Tempest*
Gustave Flaubert, *Madame Bovary*
The Diary of Anne Frank
Henry James, *The Beast in the Jungle*
Emily Bronte, *Wuthering Heights*
Jean Renoir, *La Grande Illusion*
Virginia Woolf, *Mrs. Dalloway*
The Pillow Book of Sei Shonagon

—Hubert Doris, Music Department
Autumn Tu Th 10:35-11:50

FSM BC1130x **Myths of Maternity**

An examination of the ways that the figure of the mother has been constructed in literature and culture. Special emphasis will be placed on the relation between mother and daughter. Readings include:

The Homeric *Hymn to Demeter*
Apuleius, "Amor and Psyche"
Euripides, *Electra and Medea*
Assorted materials, including visual materials,
on the cult of the Virgin Mary
Virginia Woolf, *To the Lighthouse*
Edith Wharton, *The Mother's Recompense*
Toni Morrison, *Beloved*
Amy Tan, *The Joy Luck Club*
Alice Walker, "Everyday Use"
Films: *A Dream of Passion* and *Stella Dallas*
Excerpts from Sigmund Freud, Nancy

Chodorow, Luce Irigaray, and Adrienne Rich.
—Helene Foley, Classics Department
Autumn M W 11:00-12:15

FSM BC 1133x **The Teratological Text: Representations of the Other as Monster**

We will look at writers who have portrayed the human subject as monstrous, subhuman, demented and fragmented. Emphasis will be placed on the issues of identity and difference, alterity and alienation. Readings include:

Selections from *The Odyssey*
Beowulf
Shelley, *Frankenstein*
Dostoyevsky, *Notes from the Underground*
Kafka, "The Metamorphosis"
Beckett, *The Unnameable*
Acker, *Don Quixote*
Silko, *Ceremony*

—Peter Connor, French Department
Autumn M W 6:10-7:25

FSM BC 1136x

History and Human Nature

An examination of ways in which, within the history of Western thought, evolving models of physical Nature have profoundly influenced ideas about human nature and human potential. We will consider Classical, Christian, Enlightenment, and Modern models of Nature, and the human definitions drawn from them. Readings include selections from The Bible, Aristotle, Sophocles, Marcus Aurelius, St. Augustine, Catherine of Siena, Rousseau, Darwin, Mary Shelley, and contemporary ecological thought.

—Joel Kaye, History Department
Autumn M W 4:10-5:25

FSM BC 1139y

Conceptions of the Self, Antiquity to Postmodernism: How Do I Write "Me"?

An exploration of how the self is conceived and described, with attention to various perspectives, religious and secular, gendered and political, fictional and non-fictional, autobiographical and otherwise, from Augustine to the modern. Strategies for articulating subjectivity will be analyzed. How does a text which talks about the self differ from those which do not? How do cultural contexts shape "self-concept"? Is there a grammar of selfhood? What does selfhood mean in our era? Readings to include Augustine's *Confessions*, Bruce Chatwin, *Songlines*, Tahar Ben Jelloun, *Sand Child*, Joyce Carol Oates, *I Close the Door Upon Myself*, John Updike *Roger's Version*, Milan Kundera *Immortality*.

—Catharine Coats, French Department
Spring M W 11:00-12:15

II. THE INDIVIDUAL AND THE SOCIAL ORDER

These seminars focus on the tensions between the claims of the individual to autonomy and the demands placed upon the individual by society.

FSM BC 1203

The Crisis of Authority

An examination of the authority relationship between rulers and ruled, and its collapse. The seminar will consider how authority is accepted, confronted, confined and reconstituted. Authors and readings include:

Orwell, *1984*
Plato, *The Republic*
Machiavelli, *The Prince*
Rousseau, *The Social Contract*
Martin Luther King Jr., Vaclav Havel, Sissela Bok,

Adam Michnik, Cheryl Walker, Aung San Suu Kyi, and others.

—Richard Pious, Political Science Department
Autumn M W 2:40-3:55

FSM BC 1222y

Discourses of Power: Authority, Submission, and Defiance

Ways in which individuals define and question the source and nature of authority (divine will, social structures, the politics of race and gender) and come to terms with its demands, whether through submission or defiance. Readings include:

Selections from the Old Testament

Sophocles, *Antigone*

Calderon, *Life Is a Dream*

Melville, *Billy Budd*

Wagner, *The Ring of the Nibelung*

Woolf, *Three Guineas*

Puig, *The Kiss of the Spider Woman*

Morrison, *Beloved*

—James Crapotta, Spanish Department
Spring M W 4:10-5:25

FSM BC 1228y

Ethnicity and Social Transformation

An examination of how Americans have imagined social hierarchies and ethnic identities, from the WASP- dominated society of the 1800s to the strong emergence of other ethnic groups in the 20th century. Authors include: Edith Wharton, F. Scott Fitzgerald, James Baldwin, E. L. Doctorow, Bernard Malamud, Toni Morrison, Amy Tan, Louise Erdrich.

—Margaret Ellsberg, English Department
Spring M W 1:10-2:25

FSM BC 1231x

Autobiography and Self-Portraiture

A study of self-representations in word and image, with an emphasis on women's writing and painting. Readings include:

Confessions of Rousseau and St. Augustine

Mme. de Sevigne's *Letters*

American slave narratives

Artists include: Rembrandt, Artemisia

Gentileschi, Caravaggio, Frida Kahlo

—Sheila McTighe, Art History Department
Autumn M W 6:10-7:25

FSM BC 1233

Gender and Justice

An examination of theories of moral rightness and their relationship to ideas about masculinity and femininity from ancient to modern times. Readings to include:

Plato, *The Republic*

Aeschylus, *The Oresteia*

Rousseau, *The Social Contract*

Hunt, *The Many Bodies of Marie Antoinette*

Mill, *Essays on Sex Equality*

McLauren, *Celia: A Slave*

Marx, *The Communist Manifesto*

Kollantai, *The Social Basis of the Woman Question*

—Rosalind N. Rosenberg, History Department
Autumn M W 2:40-3:55

FSM BC 1236y

The Tyranny of the Majority

An examination of the ways in which women, homosexuals, racial and religious minorities are oppressed in a democracy. Arguments that have been advanced in justification of such oppression and in providing safeguards against it. Readings include: selections from de Tocqueville, *Democracy in America*, James Madison, *The Federalist Papers*, Wollstonecraft, *A Vindication of the Rights of Woman*, Mill, *On Liberty* and *The Subjection of Women*, selected U. S. Supreme Court rulings, and various works of literature.

—Noa Latham, Philosophy Department
Spring Tu Th 10:35-11:50

III. WOMEN IN LITERATURE AND CULTURE

An investigation into the ways in which women's experience has been imagined in literature and constructed in culture. Emphasis will be on female destiny and desire; rites of passage; modes of rebellion; possibilities and limits; knowledge, freedom and duty; alternative visions and strategies. Attitudes toward myth, female sacrifice, courtship, marriage, motherhood, adultery, and work will be considered. Readings will include major works of Western and non-Western literature in the critical context of the new scholarship. Each seminar will draw approximately two-thirds of its readings from the following core list of writings:

Homer, *The Odyssey*

Sophocles, *Antigone*

Homeric *Hymn to Demeter*

Kalidasa, *Sakuntala*

William Shakespeare, *As You Like It*

Leo Tolstoy, *Anna Karenina*

Virginia Woolf, *A Room of One's Own*

Alice Walker, *The Color Purple*

Lyric Poetry by Sappho, early Buddhist nuns,

Anna Akhmatova, Sylvia Plath, Adrienne

Rich, Audre Lorde.

Selected essays by Nancy Chodorow, Carol Gilligan, Sherry Ortner.

FIRST-YEAR SEMINAR

FSM BC 1306y

Women in Literature and Culture

Special Texts:

Sigmund Freud, *Dora: Analysis of a Case*

History of Hysteria

Maxine Hong Kingston, *The Woman Warrior*

Toni Morrison, *Beloved*

Jamaica Kincaid, *Annie John*

Louise Erdrich, *Tracks*

—Susan R. Sacks, Education Program

Spring Tu Th 2:40-3:55

FSM BC 1309x

Women in Literature and Culture

Special Texts:

Geoffrey Chaucer, "Wife of Bath's Tale", "The

Second Nun's Tale," "The Clerk's Tale," in

The Canterbury Tales

Virginia Woolf, *Orlando*

Kate Chopin, *The Awakening*

Sigmund Freud, *Dora: Analysis of a Case*

History of Hysteria

—Timea Szell, English Department

Autumn Tu Th 1:10-2:25

FSM BC 1313x

Women in Literature and Culture

Special Texts:

The Bible

Toni Morrison, *Beloved*

Maxine Hong Kingston, *The Woman Warrior*

Leslie Silko, *Ceremonies*

Anzia Yezierska, *Bread Givers*

Anaya, *Bless Me, Ultima*

—Celia Deutsch, Religion Department

Autumn Tu Th 4:10-5:25

FSM BC 1318y

Women in Literature and Culture

Special Texts:

Aristophanes, *Lysistrata*

The Life of Christina of Markyate

Shakespeare, *Antony and Cleopatra*

Jung Chang, *Wild Swans: Three Daughters of China*

—Catherine Cooper, Religion Department

Spring M W 2:40-3:55

FSM BC 1319x

Women in Literature and Culture

Special Texts:

Isabelle Eberhardt, *The Passionate Nomad*

E.M. Forster, *A Room with a View*

Tillie Olsen, *Silences*

and selected other readings

—Quandra Prettyman

Autumn M W 11:00-12:15

IV. ASPECTS OF THE MODERN CONDITION

These seminars are concerned with the different ways literary artists portray and social critics analyze the contemporary Western world. Readings include works of fiction, biography, and social theory.

FSM BC 1401x

The Modern Idea of Freedom

An examination of texts, from the 17th to the 20th century, which constitute a meditation on the relationship of language to freedom and on the individual's freedom to express his individuality in the language everyone else uses. Readings include:

Pedro Calderón de la Barca, *Life is a Dream*

Jonathan Swift, *Travels into Several Remote*

Regions of the World (Gulliver's Travels)

Jorge Luis Borges, "Tlōng, Uqbar, Orbis Tertius"

Thomas Pynchon, *The Crying of Lot 49*

—Alfred Mac Adam, Spanish Department

Autumn Tu Th 1:10-2:25

FSM BC 1412y

Illness and Society

Analysis of the experience of illness and of the social and ethical values surrounding it. Eastern and Western literature is read for an understanding of the responses to illness by the patient, family and friends, and physicians. Class discussion will extend to the role of self-help efforts, of nutritional, herbal and holistic approaches to care. Texts include:

Gilman, *The Yellow Wallpaper*

Tolstoy, *The Death of Ivan Ilyich*

Mann, *The Magic Mountain*

Camus, *The Plague*

The Book of Job

Rong, *At Middle Age*

Logan, *Motherwit: Alabama Midwife's Story*

Kesey, *One Flew Over the Cuckoo's Nest*

—Theresa Rogers, Sociology Department

Spring M W 1:10-2:25

FSM BC 1420y

Fit to Survive? Darwinism and Its Influence

An exploration of the influence of Darwin's theory of evolution on economic and social theories of competition. We will contrast the theory of natural selection as an explanation for political and social dominance and economic success with its alternatives, including selections from nonfiction works by Charles Darwin, Max Weber, Friedrich Engels, W.E.B. Dubois, Charlotte Perkins Gilman, and Richard Hofstadter. Readings include:

Darwin, *On the Origin of the Species by Natural Selection* and excerpts from *The Descent of Man*

Huxley, *Science and Morals*

Kipling, "The White Man's Burden"

Richard Hofstadter, *Social Darwinism and American Thought*.

W. E. B. Dubois, *The Negro Problem*

Charlotte Perkins Gilman, *Women and Economics*

—Cecilia A. Conrad, Economics Department

Spring M W 6:10-7:25

FSM BC 1423x

Mythology, Technology, and the Unconscious

An exploration of the connection between myth, media and the unconscious. What is a myth?

How can myths be transformed and rewritten?

Are machines the gods of our time and is man a

"prosthesis god"? How are modern media (tele-

phone, telegraph, typewriter, and film) plugged

into our psyche? Readings include:

Wagner, *The Ring of the Nibelung*

Freud, *Totem and Taboo*

Nietzsche, *Birth of Tragedy*

Benjamin, "The Telephone"

McLuhan, *Understanding Media:*

The Extensions of Man

Christa Wolf, *Cassandra*

Stoker, *Dracula*

Homer, *The Iliad* (excerpts)

Films: *Dracula*, *Frankenstein*, *Metropolis*

—Sigrid Berka, German Department

Autumn M W 1:10-2:25

FSM BC 1425x

The Politics of Identity

An examination of the quest by individuals and groups to (re)gain their ethnic, racial and religious

identities with a focus on methods of empower-

ment, group affirmation, and the potentially

destructive consequences of such assertion of iden-

tity. Cases to be examined: Civil Rights/Black

Power in the U.S.; Gandhi's non-violence vs. con-

tinuing ethnic violence in India; The Palestinian/

Israeli conflict in the Middle East; the role of

women in separatist/terrorist movements.

Readings include:

Gandhi, *Non-Violence in Peace and War*

Bhagwat Charan, "The Philosophy of the Bomb"

Toni Morrison, *The Bluest Eye*

The Autobiography of Leila Khaled.

Adolf Hitler, *Mein Kampf*

Malcolm X *Speaks*

Eileen MacDonald, *Shoot the Women First*

Eric Hobsbawm, *Nations and Nationalism*

Benedict Anderson, *Imagined Communities*

—Sanya Popovic, Political Science Department

Autumn M W 11:00-12:15.

FSM 1426y

Portraits of the Artist

An investigation of the relationship of the artist and society as it reflects the intellectual climate of the modern age. Supplementary readings will include the work of Luigi Pirandello, James Joyce, and Hermann Hesse.

—Marvin Shulman, German Department

Spring M W 2:40-3:55

V. CROSS-CULTURAL ENCOUNTERS

These seminars consider imaginative and analytic efforts by one culture to comprehend aspects of another culture, thereby making them conscious instances of such efforts.

FSM BC 1518y

Communication and Pseudo-communication through Language

Communicational successes and failures across groups of humans. Literature by and about the oppressed, the disinherited, the marginalized. Critical analysis of language abuses innocently or maliciously apt to foment prejudice, paranoia, or at the very least misunderstanding. Readings include portions of:

S.I. & A. R. Hayakawa, *Language in Thought and Action*

Oscar Hijuelos, *Our House in the Last World*

Joseph Malone, *The Science of Linguistics in the Art of Translation*

Kate Millet, *The Loony-Bin Trip*

Toni Morrison, *The Bluest Eye*

Bharati Mukherjee, *The Middleman and Other Stories*

G. B. Shaw, *Saint Joan*

Amy Tan, *The Joy Luck Club*

Deborah Tanner, *You Just Don't Understand*

—Joseph Malone, Linguistics Department

Spring Tu Th 1:10-2:25

FSM BC 1519y

Perceptions of the Alien

An exploration of how the "other" — those not like "us" — are perceived: for example, foreigners, "ethnics," the other gender. The class will discuss portrayals of such aliens in fiction, in scholarly literature, and in other accounts.

Readings include:

Shakespeare, *Othello*, *The Merchant of Venice*

Forster, *A Passage to India*

Klass, "The Artificial Alien"

Selections from Margaret Mead, James

Baldwin, Nora Ephron and others.

—Morton Klass, Anthropology Department

Spring M W 2:40-3:55

FIRST-YEAR SEMINAR

FSM BC 1521y

Americans in Paris

From Henry James' late 19th-century protagonists through Gene Kelly, tap-dancing his way around Hollywood's version of Paris, Americans have always been enchanted and mystified (and frequently undone) by the City of Light. We will explore their encounter, especially as it has occurred during the 20th century, and this will lead us into an exploration not only of the expatriate experience but also of modern art — of modernism in music, dance, and the visual arts, as well as in the writing of such illustrious expatriates as Henry James, Gertrude Stein, Ernest Hemingway, and James Baldwin, among others.

—Nancy Kline Piore, English Department
Spring Tu Th 1:10-2:25

FSM BC 1522x

Images of East and West

An attempt to uncover the roots of cultural misunderstanding between East and West by examining the way that travelers, writers, and philosophers from East Asia and the West have sought to depict each other's civilization. Readings Include:

Aristotle, *Politics* (excerpts)

Ennin, *Diary; The Record of a Pilgrimage to China in Search of the Law*

Marco Polo, *The Travels of Marco Polo*

Montesquieu, *The Spirit of the Law* (excerpts)

Masao Miyoshi, *As We Say Them: The First Japanese Embassy to the US*

Lao She, *The Two Mas* (novel)

John Dower, *War Without Mercy: Race and Power in the Pacific War*

Leila Philip, *A Road Through Miyama*

—Richard Lufrano, History Department
Autumn Tu Th 1:10-2:25

FSM BC 1523x

Ancient Cultures, Timeless Questions: Classics of Moral Thought in Greece and China

A cross-cultural exploration of views of the human condition found in major works of moral thought deriving from classical Greece and classical China. The focus is on differing views of the purposes of human existence and of human moral capacity and especially on ideal of the relation between mind and body, thought and feeling. Authors and readings include:

Plato, *Apology*, *Phaedo*, and *The Republic*

Aristotle, *Nicomachean Ethics*

Analects of Confucius

Mencius, Hsün Tzu and others

—Irene Bloom, Asian and Middle Eastern Cultures Department
Autumn Tu Th 10:35-11:50

FSM BC 1524y

Images of the Body:

Race, Class, and Gender in Performance

An investigation into the ways that representations of the body are influenced by race, class, and gender in Western performance and visual art. Readings from:

Sophocles, *Oedipus Rex*

Shakespeare, *Othello*, *Merchant of Venice*

Isadora Duncan, *My Life*

Walt Whitman, *Leaves of Grass*

Kate Chopin, *The Awakening*

Nancy M. Henley, *Body Politics: Power, Sex, and Nonverbal Communication*

Deborah Jowitt, *Time and the Dancing Image*

Toni Morrison, *Playing in the Dark: Whiteness and Literary Imagination*

Readings will also include excerpts in theory and criticism. The seminar will see films, live performances and museum collections.

—Sandra Genter, Dance Department
Spring Tu Th 2:40-3:55

FOREIGN AREA STUDIES

415A Lehman Hall

854-5938

This program is supervised by the Committee on Foreign Area Studies:

Professor of Anthropology: Abraham Rosman

Professor of French: Serge Gavronsky

Associate Professor of History: William McNeil

Assistant Professor of History: Deborah Valenze

Samuel R. Milbank Professor of Asian and Middle Eastern Cultures: Barbara Stoler Miller

Professor of Political Science: Peter H. Juviler

Professor of German: Gertrud M. Sakrawa

The purpose of Foreign Area Studies is to provide an introduction to the study of a foreign region of the world. Foreign Area Studies majors are encouraged to study abroad in the region of interest. The work is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. The student who wishes to major may choose one of the regions listed below. The courses named under each region include only those most commonly elected. Other courses may be chosen upon approval of the project by an adviser.

REQUIREMENTS FOR THE MAJOR

A major in Foreign Area studies is open to a limited number of qualified students whose applications are approved by the committee in charge. First-year students and sophomores anticipating such a major should consult their class advisers and the officer in charge by March 1 of the sophomore year.

The senior requirements vary according to the region studied. Majors should consult their advisers for details.

There is no minor in Foreign Area Studies.

Asian and Middle Eastern Cultures (*Adviser:* Irene Bloom) See page 79.

European Studies (*Adviser:* Deborah Valenze)

Students may focus on one country or one region of Western Europe. Competence in the language of the region is expected. The major includes:

- A. A concentration consisting of five courses in an academic discipline in the Social Sciences chosen in consultation with the major adviser. A maximum of two of these courses that deal with European topics may be counted among the ten courses in the regional concentration (Part B).
- B. 10 courses focusing on a country or region to include:
 - Two courses in European History;
 - Two courses in the literature or cultural studies of one country in the original language;
 - Two semester senior projects under the direction of the program adviser or an adviser in the minor field;
 - Four courses outside the field of concentration dealing with the selected country or region drawn from the following list:

Anthropology V 3007	<i>Peoples of Europe</i>
Anthropology V 3037	<i>Societies in Transition</i>
Anthropology V 3038	<i>Ethnicity and Race</i>
Art History courses on European topics	
Economics BC 3030	<i>Comparative Economic Systems</i>

FOREIGN AREA STUDIES

Economics G 4313

History

Political Science BC 3007

Political Science BC 3013/3014

Political Science ISP G 4415

French courses in Culture and Literature.

German courses in Culture and Literature.

Italian courses in Culture and Literature.

Spanish courses in Culture and Literature.

Economic History of Europe

European History courses

Modern Political Movements

Political Theory

*Social and Political Institutions in
Italy Today*

See French, page 153.

See German, page 162.

See Italian, page 174.

See Spanish, page 246.

Latin American Studies (Adviser: Alfred Mac Adam)

See Department of Spanish and Latin American Cultures, page 246.

Russian Regional Studies (Adviser: Peter Juviler)

The major consists of four years of Russian language and a reading knowledge of Russian adequate for research in the Senior Seminar and eight courses distributed in the following subjects:

Two courses in Russian or Soviet literature (in translation or Russian);

Two courses in Russian history;

One course on Russia or the Soviet Union (history, geography, sociology, economics, literature in translation or Russian, etc.);

One course in Soviet politics; and

Two semesters of a senior research seminar with research to be conducted predominantly in Russian language sources.

Professors: Serge Gavronsky (Chair)¹, Renée Geen

Visiting Professor: Protails Asseng

Adjunct Assistant Professor: Anne Boyman

Assistant Professors: Catharine R. Coats, Peter T. Connor

Associate: Isabelle Jouanneau-Fertig

Instructors: Catharine Franke², Laurence C. Lang, Anne Protopappas, Rosie S. Reiss.

¹Absent on leave Spring Term

²Absent on leave 1992-93

Courses in the French Department have a twofold objective: to perfect fluency in the written and spoken language, and to develop an understanding and appreciation of the literature and culture of France and French-speaking countries.

New students who have already given evidence of advanced training in French (Advanced Placement Examination with a score of 4 or 5; CEEB examinations with a score of 750) may automatically be exempted from the language requirement. All other new students who intend to satisfy their requirement in French will, depending upon their preparation, be placed immediately in the appropriate language course or be asked to take a placement test offered at the start of each semester (see College Calendar for exact dates). Those receiving a sufficiently high grade fulfill the requirement. The others may do so by completing French BC 1204. For additional information about language courses, students should consult the department chair.

Students who have satisfied the language requirement may immediately enroll in literature and culture courses conducted entirely in French (BC 3020, BC 3021, BC 3022, BC 3023, BC 3024); courses in which the readings are in French and English with lectures, discussions, and papers in English (BC 3046, BC 3047, BC 3048, BC 3049); and advanced language courses BC 1306, BC 3007.

In cooperation with Columbia College, the department offers a program at Reid Hall in Paris open to majors and non-majors. See Study Abroad page 41.

The department holds many of its advanced classes in a special seminar-library, the French Room (306 Milbank).

REQUIREMENTS FOR THE MAJOR

All majors are required to take the Junior French Test, a short-answer examination on literary history, literary terminology, and translation. Majors will take the Major Examination, a written critical essay on a prepared question and an individual oral *explication de texte*.

Students enrolled in the Senior Essay will take the written part of the Major Examination. The defense of the essay constitutes the oral section of the Major Examination.

Majors who plan to do graduate work are encouraged to acquire a reading knowledge of Latin and German.

There are three majors available to prospective students in the department:

Language and Literature: This program emphasizes language, culture, and literature of the country.

Translation and Literature: This program perfects students' abilities to translate from French into English and English into French together with a knowledge of French culture and literature.

FRENCH

French Studies: This program emphasizes the socio-economic, political, and historical aspects of language studies as well as the cultural and literary aspects of France and Francophone countries.

In consultation with the adviser of her choice, the student majoring in French may select one of the following options:

Language and Literature

10 courses are required for the major:

FRE BC 3021, BC 3022 or BC 3023, BC 3024.

Two language courses chosen from FRE BC 3013-3019.

Two literature courses chosen from BC 3031-3036 and three courses chosen from 3037-3043.

One-term seminar numbered BC 3052, a Senior Essay, or a sixth literature course.

One-term seminar numbered BC 3052, a Senior Essay, or a sixth literature course.

Translation and Literature

10 courses are required for the major:

FRE BC 3021, BC 3022, or BC 3023, BC 3024.

Three language courses chosen from FRE BC 3014-3017.

Four one-term literature courses chosen from the following: BC 3031-BC 3043.

One-term seminar numbered BC 3053 or a Senior Essay in Translation.

French Studies

11 courses are required for the major:

FRE BC 3021, BC 3022 or BC 3023, BC 3024.

Two language courses chosen from FRE BC 3007-BC 3017.

Five one-term Advanced Literature and Culture courses numbered
FRE BC 3031-3049.

Two one-term courses in Humanities or Social Sciences selected in consultation with the major adviser.

The student is expected to declare her option by the end of the junior year. Programs may include additional courses in French literature, culture, and language, or in other subjects which vary with the interest of the student.

A student who elects French as part of a combined double, or interdisciplinary major will establish her individualized program with the departments concerned.

REQUIREMENTS FOR THE MINOR

Seven courses are required for a minor:

FRE BC 3021, BC 3022, or BC 3023, and BC 3024.

Two language courses chosen from: FRE BC 3007-BC 3017.

Three literature and culture courses chosen from: FRE BC 3031-BC 3049.

COURSES OF INSTRUCTION

LANGUAGE COURSES

For satisfactory completion of the language requirement, student with a C- or below average will have to repeat the course.

FRE BC 1001x-1002y

Elementary Full-Year Course

Basic elements of French grammar. Oral, writing and reading skills. —Staff

4 points. No credit is given for BC 1001x unless BC 1002y has been completed. Students may take either or both of these courses at Columbia.

x, y: Sec. 1 M Tu W Th F 9:00 —R. Reiss

Sec 2 M Tu W Th F 10:00 —R. Reiss

Sec 3 M Tu W Th F 10:00 —A. Protopappas

FRE BC 1102x**Review of Elementary French**

Oral and written review of basic grammar and syntax. Reading in modern literature and Francophone literature, free composition, translation. One hour of oral drill is required. —Staff
Course chair: I. Jouanneau-Fertig.

Primarily for students who need further instruction to qualify for the intermediate course. Credit cannot be granted for both BC 1102 and BC 1002 (or its equivalent). Enrollment limited to 20 students per section.
3 points.

Sec. 1. M W F 9:00-9:50 —L. Lang

Sec. 2. Tu Th 10:35-11:50 —I. Jouanneau-Fertig

Sec. 3. Tu Th 1:10-2:25 —I. Jouanneau-Fertig

FRE BC 1201x**Intermediate Conversation**

A one-point course intended to improve students' oral proficiency through individual presentations, group projects and exercises in vocabulary building. —R. Reiss

Prerequisite: Satisfaction of Elementary French. This course does not satisfy the language requirement.

1 point. Sec. 1 Tu 11:00

Sec. 2 Th 11:00

Sec. 3 F 9:00

FRE BC 1203x, y**Intermediate Course I**

Further development of oral and written communication skills. Literary analysis, expository compositions and explication de texte. Readings from modern French and Francophone literatures. —Staff

Course chair: P. Connor

Prerequisites: BC 1001x-BC 1002y, BC 1102x, C 1101-C1102, or an appropriate score on the placement test.

3 points.

x: Sec. 1 M W F 9:00 —P. Connor

Sec. 2 M W F 10:00 —C. Coats

Sec. 3 Tu Th 9:10-10:25 —I. Jouanneau-Fertig

y: Sec. 1 M W F 9:00 —L. Lang

Sec. 2 M W F 11:00 —P. Connor

Sec. 3 Tu Th 10:35-11:50 —I. Jouanneau-Fertig

FRE BC 1202y**Writing Workshop**

A one-point course intended to improve students' writing skills through creative and analytic short papers based on literary and topical assignments. —L. Lang

Prerequisite: Satisfaction of Elementary French. This course does not satisfy the language requirement.

1 point.

Sec. 1 M 10:00

Sec. 2 W 10:00

Sec. 3 F 10:00

FRE BC 1204x,y**Intermediate Course II:****French through Literary Analysis**

More advanced work in language skills.

Emphasis on literary analysis and explication de texte. Readings taken from the Renaissance to the modern period. —Staff

Course Chair: C. Coats

Prerequisite: BC 1203 or an appropriate score on the placement test.

3 points.

x: Sec. 1 M W F 10:00 —L. Lang

Sec. 2 M W F 11:00-11:50 —A. Protopappas

Sec. 3 Tu Th 1:10-2:25 —A. Boyman

y: Sec. 1 M W F 9:00 —P. Connor

Sec. 2 M W F 10:00 —C. Coats

Sec. 3 M W F 11:00 —L. Lang

Sec. 4 Tu Th 1:10-2:25 —R. Reiss

FRE BC1306x, y**Composition and Conversation**

Weekly compositions designed to improve writing skills, and to correct grammar and syntax.

Pronunciation, vocabulary development, conversations, debates based on controversial themes taken from French newspapers and magazines.

3 points. Not offered in 1992-93.

FRE BC 3007y**Commercial-Economic French**

The socio-economic language of contemporary French society. Practice of oral and written communications based on documents from the French press. Students who have completed this course may wish to take the Certificate given by the Chambre de Commerce et d'Industrie de Paris. —I. Jouanneau-Fertig

Prerequisite: Satisfaction of the language requirement or the equivalent. BC 1306 recommended.

Course fee \$5.00

3 points. Tu Th 1:10-2:25

FRE BC 3012x**History of the French Language**

Distinguishing characteristics of the French language in their relation to literary prose from the Middle Ages to the 20th-century. Analysis and translation of representative texts.

Prerequisite: Satisfaction of the language requirement or the equivalent. Majors preferred.

3 points. Not offered in 1991-92.

FRE BC 3013x**Advanced Composition and Grammar Review**

Systematic study of morphology, syntax, and idiomatic expressions. Weekly writing assignments. —R. Geen

FRENCH

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. M W F 11:00

FRE BC 3014x

Advanced Translation: Literary Texts

Translation of various styles of prose and poetry from French to English. —A. Boyman

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. Tu Th 10:35-11:50

FRE BC 3015x

Advanced Translation into French

Translation from English to French of various styles of prose and poetry. —R. Geen

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. Not offered in 1992-93.

FRE BC 3016y

Advanced Conversation

Spoken French stressing fluency, and acquisition of new vocabulary. Practice in phonetics. Conversations, debates based on newspaper articles, dramatic readings and oral explication de texte.

—A. Boyman

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. Not offered in 1992-93.

FRE BC 3017x

Advanced Translation: Non-Literary Texts

Translation of various non-literary styles of prose taken from historical, critical, and journalistic sources.

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. Not offered in 1992-93.

FRE BC 3018x

Creative Writing

Intensive November writing workshop emphasizing new approaches to narrative prose and poetry.

Prerequisite: Satisfaction of the language requirement or permission of the chair.

1 point. Not offered in 1992-93.

FRE BC 3019y

Advanced Phonetics

A detailed study of the major rules of French pronunciation; theoretical linguistic concepts will be followed up with intensive oral drills.

—A. Boyman

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. Not offered in 1992-93.

LITERATURE COURSES

For nonmajors the literature courses listed in this section will count toward the general requirement. Courses BC 3047, BC 3048 and BC 3049 are conducted in English.

FRE BC 3020x

Special Themes in Modern French Culture and Literature:

8. Surrealism in Film and Painting

—S. Gavronsky

Not offered in 1992-93.

9. Jewish Identity in Modern French Literature

—L. Lang

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. Not offered in 1992-93.

H

FRE BC 3021x, 3022y

Masterpieces of Literature from the Middle Ages to the 20th Century

A chronological view of French literature through analyses of significant works and currents from the Middle Ages to the 20th century. Lectures, discussions and close textual analyses. Autumn Term: Medieval, Renaissance and Classical Literature. Spring Term: The Age of Enlightenment, Romanticism, Realism and Symbolism. French BC 3021 may be taken for credit without completion of French BC 3022. —R. Geen

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. M W F 10:00-10:50

H

FRE BC 3021y

Masterpieces of Literature from the Middle Ages to the 20th Century I

Equivalent of Course BC 3021x but given in the Spring Term.

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. Not offered in 1992-93.

FRE BC 3022x

Masterpieces of Literature from the Middle Ages to the 20th Century II

Equivalent of BC 3022y but given in the Autumn Term. —C. Coats

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. M W 1:10-2:25

H

FRE BC 3023x, 3024y

The Culture and Institutions of France

The major cultural and institutional foundations of France from the Middle Ages to the present. Autumn Term (not offered in 1992; offered in 1993): The period extending from the reign of Charlemagne through the end of the reign of Louis XIV. Spring Term (1993): From the Age of Enlightenment through the student revolts in 1968. Topics include the Encyclopédistes, the French Revolution, the rise of socialism, the Paris Commune, the Dreyfus Affair, Paris under the Occupation, racism and student revolts in 1968. Readings from historical, philosophical, religious and literary sources (Sade, Rousseau, Proudhon, the Goncourt brothers, Zola and the Situationist International). —P. Connor
Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. M W F 12:00

H

FRE BC 3031x

Religious and Intellectual Ideas in the Middle Ages

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.
3 points. Not offered in 1992-93.

H

FRE BC 3032y

Humanism and Reformation in 16th-Century France

Examination of the major literary, philosophical, and theological currents of the 16th century, stressing the development of the concept of selfhood in its secular, religious, and gender-based concepts. Texts read in pairs, one from the period of Humanism, and one from the Reformation in order to highlight both the shifts in focus and the intersections. Authors include Rabelais, Montaigne, Ronsard, d'Aubigné, Calvin, de Navarre. —C. Coats
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. M W F 12:00

H

FRE BC 3033y

Renaissance, Baroque and Classical Poetry

Major poetical texts from the 16th and 17th centuries. —C. Coats
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. Not offered in 1992-93.

H

FRE BC 3034x

French Classical Literature and Culture

Focus on the literature and culture of the 17th century.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. Not offered in 1992-93.

H

FRE BC 3035y

Eighteenth-Century French Fiction

Courses and discourses of the heroine in selected 18th-century novels. —R. Geen
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. Not offered in 1992-93.

H

FRE BC 3036x

The Age of Enlightenment

The challenge of traditional ideas on government, religion, ethics, and aesthetics in 18th-century France. The role of women and the importance of the salons, the press, and the Encyclopédie in the dissemination of ideas. Authors include Fontenelle, Bayle, Montesquieu, Voltaire, Diderot, Rousseau, Sade and Condorcet. —R. Geen
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. M W 1:10-2:25

H

FRE BC 3037y

Nineteenth-Century French Poetry

Poems by Lamartine, Hugo, Baudelaire, Rimbaud, and Mallarmé read within the general literary context of the transition from Romanticism to Modernism. —A. Boyman
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. Tu Th 10:35-11:50

H

FRE BC 3038x

The Nineteenth-Century French Novel

Evolution of the novel, aesthetics of Romanticism, Realism, Naturalism, and Symbolism. —P. Connor
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. Not offered in 1992-93.

H

FRE BC 3039y

Twentieth-Century French Theater

Tradition and innovation in major French dramatists including Giraudoux, Anouilh, Claudel, Ionesco, Genet, and Beckett. —R. Geen
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. M W F 11:00

H

FRE BC 3040y

Twentieth-Century French Fiction

Thematic violence in 20th century French literature.

—P. Connor

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. Not offered in 1992-93.

FRE BC 3041x

Twentieth-Century French Thought

The definition of the Other has been defined both from the outside as well as by the group itself. The first half of the semester will focus on the definition of the Jew from the 1880's through Le Pen.

The second part of the semester will focus on French-speaking North Africans (Maghrebins) and the manner in which their writers and critics have defined themselves. Authors include

Drumont, Céline, Sartre, Kristéva, Fanon, Memmi, Yacin and Djébar.—S. Gavronsky

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. Tu Th 1:10-2:25

H

FRE BC 3042x

Twentieth-Century French Poetry

A close reading of some of the major poets of the century who have been particularly attentive to both the epic form and the concept of the "Book."

—S. Gavronsky

Prerequisite: FRE BC 3021, 3022, 3023, 3024 or the equivalent.

3 points. Not offered in 1992-93.

H

FRE BC 3043y

Women in Theory and in Fiction

Works of theory and of fiction written by women will be read in the context of the literary and theoretical movements which have emerged in France since the end of World War II.

Authors include de Beauvoir, Sarraute, Duras, Kristéva, Cixous, and Irigaray. —A. Boyman

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. Tu Th 1:10-2:25

H

FRE BC 3046y

Political-Economic Aspects of Contemporary France

Major politico-institutional and socio-economic crises and debates in France from the postwar years to the present socialist confrontations with the question of immigration. Topics to include the legacy of the 30's and Vichy; centralization and the modernization of the state; loss of the French Empire; May 1968 as a "cultural revolution"; and recent developments in socialist policies and the

European challenge of 1993. —A. Protopappas
Prerequisite: Satisfaction of language requirement and one advanced French course or the equivalent.
3 points. M W 1:10-2:25

FRE BC 3047x, y

Topics in French and Francophone Cultures

6. Censorship and Literature in France from the ancien régime to World War II

Course taught in English with readings in English and French; papers in English.

—R. Geen

Prerequisites: Satisfaction of language requirement and one advanced French course or permission of the instructor.

3 points. Not offered in 1992-93.

H

7. Négritude

An analysis of the origins, evolution, and current interpretations of *négritude*. —S. Gavronsky

3 points. Not offered in 1992-93.

H

y: 8. Africa in Film and Literature

Examines through film and literature, the self-portrayal of French-speaking Africa with a special emphasis on the films and novels of the Senegalese, Ousmane Sembene. Authors will include Mbia, Kanwa and Asseng from Cameroon, Idrissa from Burkina-Faso, and Palcy from Martinique. Readings will include short stories, novels and plays as well as eight films. —P. Asseng

Course taught in French and English. Readings in French and English; papers in English.

Prerequisite: Satisfaction of the language requirement and one advanced course in French or the equivalent. Course fee: \$20.

3 points. Tu W 4:10-6:00

H

FRE 3048x, y

Topics in Theory and Literary Criticism

Courses taught in English with readings in English and French; papers in English.

Critical Theory An introduction to structuralism and post-structuralism focusing on the question of the subject. —A. Boyman

3 points. Not offered in 1992-93.

FRE BC 3049x

France on Film

Films on/of the period from the 1930's to the present focusing on the interplay between history, ideology, and culture. Topics include the syndicalist movement, Resistance and anti-Semitism, anti-Americanism, the presence of the Other, and the status of the intellectual. Readings include works by contemporary historians, sociologists, feminist

critics, as well as film historians and theoreticians. Filmmakers include Clair, Carné, Chabrol, Ophuls, Melville, Blier, Resnais, Sembene, Pontecorvo, and Kaplan.—S. Gavronsky
 Course taught in English with readings in English and French; papers in English.
Prerequisite: Satisfaction of the French language requirement, one advanced French course or the equivalent.

3 points. Course fee \$20.

Screenings Tu 7:00-9:00; Discussion W 4:10-6:00

SEMINARS

FRE BC 3052x

Seminar in Literature

Written permission of the instructor is required.
 4 points. Not offered in 1992-93.

FRE BC 3053y

Seminar in Translation

Written permission of the instructor is required.
 4 points. Not offered in 1992-93.

SENIOR ESSAYS

The Senior Essay may be taken in lieu of the senior seminar only by seniors with an A- average in the department. Written permission of sponsor is required. Normally a one-semester course.

FRE BC 3057x, 3058y

Senior Essay: Literature or French Studies

Research into French or Francophone literatures and cultures. Literature majors will write their essays in French; French Studies majors may write in English.

FRE BC 3059x, 3060y

Senior Essay: Translation

Presentation and translation into English of a French text of significant length and literary or cultural value.

STUDY IN PARIS

Reid Hall Programs

419 Lewisohn Hall. 854-2559

Reid Hall, at 4, rue de Chevreuse, in Montparnasse, is the Paris campus for Barnard College and Columbia University programs. The programs are open to students with majors in all fields. To assure validation of credits, students should work closely with their major advisers. Students should consult the current Reid Hall Bulletin about course offerings, which are subject to change.

Students may study at Reid Hall for one term (autumn, spring, or summer) or for an entire

academic year. Students in the autumn programs may stay on for the spring. Participation in the Reid Hall Programs (except during the summer) requires a full-time commitment to four courses totaling at least 12 points. Students may enroll in a fifth course with the permission of the Director of Studies. All students should discuss their proposed program with their home college adviser and Dean of Studies prior to departure.

AUTUMN PROGRAMS

Application Deadline: March 1

1. *The Intensive French Language and Civilization Program.* Open to students with two years of college-level French or the equivalent.
2. *The French Studies in the Humanities and Social Sciences Program.* Open to students with three years of college-level French or the equivalent. The third-year courses may be in literature, culture, grammar, composition, or conversation. Students may take up to two of their courses in the French University system.
3. *The Art History Program.* Open to students in good standing who have completed two years of college French or the equivalent, and one introductory art history course with grades of B or better.
4. *The Supervised Research Program.* Open to students with three years of college-level French or the equivalent with grades of A- or better. Students may take up to three courses in the French University system and, in addition, must complete a mémoire, a research paper of publishable quality of at least 30 pages in length.
5. *The Film Studies Program.* Open to students who have had at least some exposure to coursework on the history, theory and criticism of film, whether Film Studies majors or not. This program allows them to study French and European cinema from a fresh critical perspective. At least 3 years of college French or the equivalent; 3.0 Grade Point Average; some previous work in Film Studies.

SPRING PROGRAMS

Application Deadline: October 1

1. *The Intensive French Language and Civilization Program.*
2. *The French Studies in the Humanities and Social Sciences Program.*
3. *The Supervised Research Program.*
4. *The Film Studies Program.*

ACADEMIC-YEAR PROGRAMS

Application Deadline: March 1

1. Students in the above-mentioned autumn programs may stay on for the spring. A variety of program options are available and are included in the descriptions of the autumn programs.
2. *The Academic-Year Program*. Open to students who have completed three years of college French with distinction. Students study at Reid Hall and in the French university system and write a thesis.

SUMMER PROGRAMS

The Columbia University Summer Session regularly offers courses at Reid Hall. A six-week summer term, in operation during June and July, is open to Columbia University and Barnard College students, qualified students from other institutions, and to persons without current academic affiliation. All courses are offered for academic credit. Although the program changes from year to year, a typical Paris offering includes courses in intermediate and advanced French and in art history. Courses in film, literature, history, and philosophy may also be available. The Reid Hall Program is announced in the Summer Session Bulletin, which is available in February of each year. For a copy, write or call the Summer Session Office of Admissions, 303 Lewisohn Hall, Columbia University, New York, N.Y. 10027: (212) 854-2752.

Courses Offered at Reid Hall in Paris

French H 3003x, y **Phonetics**

—M.-M. Charlier
3 points.

French H 3333x, y **Introduction to Literary Study:** **Medieval to Neo-classical Literature**

—J.Y. Pouilloux; B. Croquette
Credit is not granted for both BC 3021 and H 3333 (or C 3333 or F 3333).
3 points.

French H3334x, y **Introduction to Literary Study:** **From the 18th Century to the Present**

—L. Vernière, S. Hinglais
Credit is not granted for both BC 3022 and H 3334 (or C3334 or F 3334).
3 points.

French H 3405x, y
Third-year Grammar and Composition, I
—M-M. Charlier, C. Valéro
3 points.

French H 3406x, y
Third-year Grammar and Composition, II
—C. Valéro
3 points.

French H 3131x, y
Third-year Conversation I. Aural/Oral Skills:
Phonetics and Oral Expression
—M-M. Charlier, C. Valéro
3 points.

French H 3441x, y
Fourth-year Conversation I
—C. de Heredia, M-P. Chatras
3 points.

French H3431x, y
Fourth-year Grammar and Composition, I
—S. Hinglais, S. Lecoîntre, J. Rousseau, D. van de Velde, M. Hamon
3 points.

French H 3432x, y
Fourth-year Grammar and Composition, II
—L. Vernière, N. Huston
Prerequisite: French H3431 or its equivalent.
3 points.

French H 3550x or y
History of the French Language
—D. Manesse, D. Godineau
3 points.

French H 3602x, y
Contemporary French Literature
—D. Haase-Dubosc, M. Marini, B. Vercier
Credit is not granted for both BC 3041 and H 3602.
3 points. H

French H 3625x, y
Literary Analyses of French Culture
Ideology and politics in the literary texts of the 20th century. The issues of exclusion and participation in terms of contemporary French cultural identity. French society's relationship to its literary heritage and to the French language.—J. Lecarme, B. Vercier, L. Vernière
3 points.

**French H 3991x-H 3992y
Supervised Study in the
French University System**

Study in the French university system in the area of the student's choice under the supervision of the Director of Studies.

2 to 15 points each term.

**French H 3997x-H 3998y
Supervised Research in France**

2 to 6 points each term.

FILM STUDIES

**Film H 3010x, y
Introduction to Film Analysis**

—G. Delavaud

3 points.

**Film H 3030x
Introduction to French Cinema in an
International Context: Early to Mid-1900s**

—N. Burch

3 points.

**Film H 3031y
Introduction to French Cinema in an
International Context: 1954 to the Present**

—N. Burch

3 points.

**Film H 3920x, y
Seminar on the Work of a Major French
Filmmaker**

—Instructor to be announced.

4 points.

The following courses are also offered at Reid Hall. For complete descriptions, see the appropriate departmental section of this bulletin or the Reid Hall Programs Bulletin available at 412 Lewisohn Hall.

Art History H 3320y. *Medieval Art and Architecture.*

Art History H 3350x. *Romanesque and Gothic Art in France* (in English).

Art History H 3430x, y. *Renaissance and 17th Century Art and Architecture.*

Art History H 3604x, y. *Seminar on Contemporary French Art.*

Art History H 3705x, y. *Contemporary Art in Paris.*

Art History H 3955x. *International Gothic Art (Seminar)* (in English).

Art Humanities H 3710y. *Fine Arts in Paris* (in English).

Comparative Literature H 3250x-H 3251y. *Aesthetics I and II.*

History H 2503x, y. *Introduction to French Civilization and Culture.*

History H 3460x. *Intellectual and Social History of Paris.*

Philosophy H 3550x, y. *Aspects of Contemporary French Thought.*

History-Political Science H 3240x, y. *The State and Political Life in France from the Revolution to the Present.*

History-Political Science H 3260y. *The French Intellectual and France in Crisis: from the Dreyfus Case to May 1968.*

Women's Studies H 3450y. *Contemporary French Thought and Feminist Theory (Seminar).*

Women's Studies H 3550y. *Women and Society in France: History of Women From the 16th to the 20th Century.*

Professor: Gertrud M. Sakrawa (Chair)

Assistant Professor: Sigrid Berka

Lecturer: Regina Ayre

Senior Associate: Marvin Shulman

For organizational purposes faculty teaching German language and literature courses will be included in the Department of German, Italian and Linguistics.

Courses in German are designed to develop proficiency in language skills and to present the traditions as well as the current developments in the literature and culture of the German-speaking countries: Austria, Germany, and Switzerland.

The language requirement in German is fulfilled by the completion of BC 1204, *Intermediate Course II*. Entering students with a previous knowledge of German will be placed in the appropriate course on the basis of their CEEB scores or in accordance with their achievements on a placement test taken prior to registration.

Three levels of language instruction are offered with an equal emphasis on reading, writing, oral comprehension, and speaking. The *Elementary Full-Year Course*, German BC 1001-BC 1002, includes a series of videocassettes that the students will view at the rate of one a week to supplement their five classroom contact hours. In the *Intermediate Course I and II*, German BC 1203 and BC 1204, fictional prose provides a basis for expanding the students' knowledge of contemporary life and thought in the German-speaking countries. In advanced *Conversational German*, BC 3005, idiomatic usage is stressed; items from the German media are used as aids to broaden the students' awareness of current trends and events. In *Advanced German Composition*, BC 3006, writing skills are developed. These two courses may be taken in reverse sequence. BC 3007, 3008 *Business-Economic German I and II* offers two levels of practice in understanding and usage of specialized terminology.

Satisfactory completion of or exemption from BC 1204 is required for enrollment in any of the advanced courses; the sequences in which these should be taken will be determined in consultation with the department.

There are two majors available to prospective students:

Language and Literature:

The courses comprising this program are all taught in German with the twofold objective of combining the study of significant works, literary trends, and cultural manifestations with advanced practice in the use of German as a medium of intellectual communication.

German Studies:

This major combines a study of literature with other aspects of German culture and civilization by choosing courses from the social sciences such as history, political science and economics, and from other humanities dealing with the German-speaking regions of Europe.

The department will assist and advise those students who are interested in opportunities to study in Germany or Austria.

Language and Literature:

The major requires 10 courses:

GER BC 3005x (3 pts)	<i>Conversational German and/or</i>
GER BC 3006	<i>Advanced Composition*</i>
GER BC 3011	<i>Introduction to German Literature and Civilization</i>
GER BC 3061	<i>Seminar</i>

Five one-term advanced literature courses chosen from GER BC 3014-3048

*The second advanced language course may be substituted for one advanced literature course.

GER BC 3062x or y

Senior Essay

German Studies:

The major requires 14 courses:

Two of the following language courses:

GER BC 3005-3008

Five one-term Advanced Literature and Culture courses numbered:

GER BC 3011-3048

One GER BC 3062x or y *Senior Essay* (thesis topic to be selected)

Six one-term courses in the Social Sciences and Humanities that relate to the German-speaking countries of Europe and define a special field of interest (to be chosen in consultation with the major adviser). Two courses dealing with German history are strongly recommended.

*The major adviser in the German department will work with a second reader in another field if the thesis topic should require it.

A student who selects a Combined Major will establish her special program in consultation with the departments concerned.

REQUIREMENTS FOR THE MINOR

Five courses are required:

One advanced language course from GER BC 3005-8

GER BC 3011

Three additional advanced German literature courses from GER BC 3014-48

COURSES OF INSTRUCTION

LANGUAGE COURSES

GER BC 1001x-1002y

Elementary Full-Year Course

Fundamentals of German grammar, comprehension of the spoken language, reading, writing, and speaking. Intensive aural-oral practice.

—M. Shulman and staff

Work with video cassettes is required. No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed.

4 points.

Sec. 1 M T W Th F 9:00

Sec. 2 M T W Th F 12:00

Sec. 3 M T W Th F 12:00

GER BC 1001y

Elementary Full-Year Course Part I

Same as BC 1001x, but given in the Spring Term.

—R. Ayre

No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed.

4 points. M Tu W Th F 12:00

GER BC 1002x

Elementary Full-Year Course Part II

Same as BC 1002y, but given in the Autumn Term. — V. Agnew

4 points. M Tu W Th F 12:00

GER BC 1203x

Intermediate Course I

Complete grammar review through regular exercises. Texts by modern authors are used for close and rapid reading. Practice in conversation aims at enlarging the vocabulary necessary for daily communication. — M. Shulman and staff

Prerequisite: BC 1002 or the equivalent.

4 points. Sec. 1 M Tu W Th 10:00

Sec. 2 M Tu W Th 1:10

GER BC 1203y

Intermediate Course I

Same as BC 1203x, but given in the Spring Term. —R. Ayre

Prerequisite: BC 1002 or the equivalent.

4 points. M Tu W Th 1:10

GER BC 1204y **Intermediate Course II**

Language study based on literary texts: several short stories, one short novel. Assignments include compositions in German and exercises of grammatical forms, both related to the texts.

Class discussions in German provide oral and aural practice. — S. Berka and G. Sakrawa

Prerequisite: BC 1203 or the equivalent.

3 points. Sec. 1 M W F 10:00

Sec. 2 M W F 1:10

GER BC 1204x **Intermediate Course II**

Same as BC 1204y, but given in the Autumn Term. —G. Sakrawa

Prerequisite: BC 1203 or the equivalent.

3 points. M W F 10:00-10:50

GER BC 3005x **Conversational German**

Intensive oral practice with emphasis on idiomatic usage and cultural allusions in speech patterns. Discussion of items in the German press and radio. Third hour for third point with special assignments. This course and BC 3006 may be taken in reverse sequence. —S. Berka

2 points. Sec. 1 M W 10:00

3 points. Sec. 2 M W F 10:00

GER BC 3006y **Advanced German Composition**

Weekly writing assignments, also extended projects. Choice of topics. Designed to improve grammar, syntax, vocabulary and style. The course may be taken before BC 3005x. — S. Berka

Prerequisite: BC 1204 or the equivalent.

3 points. M W F 10:00

GER BC 3007x **Business-Economic German I**

Introduction to the specialized vocabulary of German business (trade, banking, marketing, organization and government policies). Videos, discussions, written and oral assignments. —M. Roennau

Prerequisite: BC 1024 or permission of the instructor.

3 points. Tu Th 1:10-2:25

GER BC 3008y **Business-Economic German II**

Advanced topics in business German through lectures, discussion, case studies and presentations. Emphasis is on the historical, social and political aspects of the text. This course serves as preparation for the "Prüfung Wirtschaftsdeutsch International" — the Goethe Institute's business German certification. —M. Roennau

Prerequisite: BC 3007x or permission of the instructor.
3 points. Tu Th 1:10-2:25

LITERATURE COURSES

The literature courses listed below are conducted in German. Examinations are written in English. Papers may be written in German or English.

GER BC 3011x **Introduction to German Literature and Civilization**

German literature in a historical-cultural context from the late 18th- to the 20th-century. Selected readings from Lessing to Handke.— S. Berka

Prerequisite: BC 1204 or the equivalent.

3 points. M W F 11:00

H

GER BC 3014y **German Literature and Culture around the Turn of the 20th Century**

One of the richest and most diversified periods of cultural life in Germany and Austria. Study of Modernism based on plays, narratives, and poems by Hauptmann, Hofmannsthal, Kaiser, Schnitzler, Mann, Rilke, and Kafka. —G. Sakrawa

Prerequisite: BC 1204 or the equivalent.

3 points. Not offered in 1992-93.

H

GER BC 3015x **Goethe**

Major works of Goethe in relation to his life and his times: Werther, Iphigenie, Wilhelm Meister, Faust, and poems. —G. Sakrawa

Prerequisite: BC 1204 or the equivalent. Alternate years.

3 points. Not offered in 1992-93.

H

GER BC 3016y **The Romantic Movement in Germany 1790-1820**

Theory of Romantic poetry as proposed by the Schlegel brothers; circles of Jena, Berlin and Heidelberg; prominent women of the time.

Movement's impact on scholarship and translation. poetic works by Tieck, Novalis, Hölderlin, Hoffmann, and Eichendorff. —G. Sakrawa

Prerequisite: BC 1204 or the equivalent.

3 points. No offered in 1992-93.

H

GER BC 3018y **Schiller and Kleist**

Schiller's and Kleist's major dramatic works and Kleist's novellas are studied in the context of both authors's roles in the political and intellectual life of their time. —G. Sakrawa

Prerequisite: BC 1204 or the equivalent.

3 points. Tu Th 10:35-11:50

H

GER BC 3025y**The Age of the Bourgeoisie
in German Literature**

Drama, poetry, and prose by Heine, Grillparzer, Büchner, Wagner, Keller, Storm, Stifter, and Fontane. — G. Sakrawa

Prerequisite: BC 1204 or the equivalent. Offered every three years.

3 points. Not offered in 1992-93.

H

GER BC 3027y**Modern German Literature
and Culture: 1900-1945**

German literature from Turn of the Century to end of World War II with emphasis on Expressionism, Weimar Republic, Third Reich, and Exile. Among the readings are works by the brothers Mann, Rilke, Kafka, Hesse, Jünger, Brecht. Close attention to socio-historical context and illustration through pertinent films by Murnau, Lang, Riefenstahl. —S. Berka

Prerequisite: BC 1204 or the equivalent.

3 points, M W 2:40-3:55

H

GER BC 3028x**Contemporary German Literature
from End of World War II to Unification**

Critical analysis of works by writers from the two Germanies, Austria, Switzerland: Böll, Bachmann, Frisch, Grass, Wolf, Hein, Handke, Strauss, Jelinek, and others. —S. Berka

Prerequisite: BC 1204 or the equivalent. Alternate years.

3 points. Not offered in 1992-93.

H

GER BC 3046y**German Literature in the 18th-Century**

An introduction to the Enlightenment and Storm and Stress through works by Lessing, Wieland, Herder, the young Goethe, and the young Schiller. —G. Sakrawa

Prerequisite: BC 1204 or the equivalent. Alternate years. Not offered in 1992-93.

H

GER BC 3061x**Seminar: Faust**

The Faust legend, the literary tradition, Goethe's Faust Part I and II; analysis and interpretation; the poet's progress; Goethe's Faust as mirror of the age and as world literature. —G. Sakrawa

Prerequisite: Major status or permission of the instructor.

4 points. M 2:10-4:00

H

GER BC 3062y**Senior Essay**

The topic must be related to one of the literature courses that the student has completed in the department. —G. Sakrawa and S. Berka

Open to senior majors. Permission of the instructor required.

3 points. Regular consultations with the instructor at hours to be arranged.

COURSES GIVEN IN ENGLISH

German majors and minors are required to read the texts in German and to attend an additional seminar hour conducted in German in those courses indicated below.

GER BC 3047y**The Golden Age of German Medieval
Literature**

An exploration of medieval literary traditions. The courtly epic: Erec, Parzival, Tristan; the Nibelungenlied; Minnesang; monastic women writers. —R. Ayre

Corequisite: GER BC 3048y required for German majors and minors.

3 points. Not offered in 1992-93.

GER BC 3048y**The Golden Age of German Medieval
Literature: Discussion Section**

Discussion in German of readings for GER BC 3047y. —R. Ayre

Required for German majors and minors only: texts to be read in German. Prerequisite: GER BC 1204 or equivalent. *Corequisite:* GER BC 3047y.

1 point. Not offered in 1992-93.

Professors: Robert A. McCaughey (Dean of the Faculty), Rosalind N. Rosenberg, Genrikh Trofimenko (Visiting)

Associate Professors: Mark C. Carnes, William C. McNeil (Chair), Nancy Woloch (Adjunct)

Assistant Professors: Beth Bailey¹, Kathleen Donohue (Visiting), David Farber¹, Joel Kaye, Richard J. Lufrano, Herbert Sloan, Deborah Valenze

Other officers of the University offering courses in History:

Professors: Roger S. Bagnall, Alan Brinkley, Richard Bulliet, Richard Bushman, Caroline Bynum, David Cannadine, Istvan Deák, Barbara Fields, Eric Foner, Nina Garsöian, Carol Gluck, Arthur Goren, Leopold H. Haimson, William V. Harris, Martha Howell, Kenneth Jackson, Herbert S. Klein, Hollis R. Lynch, Edward Malefakis, Walter Metzger, Robert O. Paxton, Eugene Rice, David J. Rothman, James P. Shenton, J.W. Smit, Michael Stanislawski, Nancy Leys Stepan, Fritz Stern, Alden T. Vaughan, Isser Woloch, Richard Wortman, Marcia Wright, Yosef H. Yerushalmi

Associate Professors: Richard Billows, Elizabeth Blackmar, Joshua Freeman, Ayesha Jalal, Rhoads Murphy, Marc Van de Mieroop, Dwight Van Horn, Mark von Hagen, Madeleine Zelin

Assistant Professors: Olivia Constable, Atina Grossmann, Mahmud Haddad, Deborah Levenson-Estrada, Achille Mbembe, Silvana Patriarca, Anders Stephanson

¹Absent on leave 1992-93

History, which includes the whole of human experience, helps us understand ourselves in the context of our own times and traditions through the study of times and traditions different from our own. It provides perspective on the present through examination of change and continuity in the development of our political, economic, social, religious, and cultural ideas and institutions in preceding centuries. History means not only the record of the past but also the discipline of investigation and interpretation of the past. There is no one way of doing history, but doing history necessarily involves the collection and evaluation of various types of evidence — quantitative as well as qualitative—from primary sources. The study of history, which develops habits of critical thinking and effective writing, should be of value not only to undergraduates who intend to pursue advanced degrees in the field, but also to all students interested in exploring the diversity and complexity of the human past and in improving their analytical and expository skills.

Barnard history courses are numbered according to the following scheme of classification:

- 1000-level introductory lecture courses
- 3000-level advanced lecture courses
- 3400-level seminars
- 3700-level senior research seminars
- 3900-level independent research seminars

Lecture courses are defined more broadly — chronologically, geographically, thematically — than seminars, which characteristically involve reading and discussion of primary and secondary sources on more specialized subjects. Students must apply for admission to seminars by filling out forms available in the departmental office. Deadline for applications for Autumn 1992 seminars: April 13, 1992. Deadline for applications for Spring 1993 seminars: November 20, 1992. Deadline for applications for Autumn 1993 seminars: April 16, 1993.

Students should consult the Columbia College catalogue for full descriptions of Columbia history courses and for regulations concerning enrollment in these courses. Application forms for Columbia seminars, due by the deadlines mentioned above, are available in 611 Fayerweather and in 415 Lehman. Certain Columbia graduate (“G”) courses are open to qualified history majors with the approval of the Barnard chair and the Columbia instructor. For course descriptions see the bulletin of the Graduate School of Arts and Sciences.

Students will receive six points of College credit for a score of five and three points of credit for a score of four on the Advanced Placement Examination in American or European history. These credits are not counted toward the History major.

REQUIREMENTS FOR THE MAJOR

Students who intend to major in history should consult a member of the department in their sophomore year to plan their academic programs.

The history major requires a minimum of eleven courses, eight in the area of concentration and three outside the area of concentration. The three principal areas of concentration are European, American, and Asian history, but majors may, in consultation with their advisers and with the approval of the chair, concentrate in some other field, such as ancient, medieval, Jewish, or African history. The 11 required courses must include:

- 1. Three 1000-level courses (or their equivalent—students with AP credit may substitute a more advanced course)
- 2. Two seminars
- 3. The two-semester senior research seminar (HIS BC 3791-2 or HIS 3793-4).

Majors may, with the approval of their advisers, take two of their 11 courses outside the department, provided that such courses are closely related to their concentrations.

SENIOR RESEARCH SEMINAR

The senior research seminar, in which students write their senior essays (30-50 pages), represents the culmination of the undergraduate history major. Students should discuss tentative topics with their advisers by the end of the junior year. Halfway through the first semester of the senior year students must submit a formal prospectus defining the problem under investigation, outlining the issues involved, and identifying the primary and secondary sources consulted. They must draft part of the essay by the end of the autumn semester, then complete their research and writing in the spring.

REQUIREMENTS FOR THE MINOR

The minor in history requires five courses, four in an area of concentration and one outside the concentration. The five courses must include one seminar. Students planning to minor in history should consult the department chair.

COURSES OF INSTRUCTION

LECTURES:
ANCIENT, MEDIEVAL, JEWISH, AND
MODERN EUROPEAN HISTORY

HIS BC 1004x
The High Middle Ages: 1050-1450
Social environment, political and religious institutions, and the main intellectual currents of the Latin West studied through primary sources and modern historical writings.—J. Kaye
3 points. Tu Th 10:35-11:50

HIS BC 1011x
Introduction to European History: Renaissance to French Revolution
Political, economic, social, religious, and intellectual history of early modern Europe, includ-

ing the Renaissance, Reformation and Counter-Reformation, absolutism, Scientific Revolution, and Enlightenment.—D. Valenze
3 points. M W 11:00-12:15 S

HIS BC 1012y
Introduction to European History: French Revolution to the Present
Emergence of revolutionary and counter-revolutionary mass political movements; European industrialization, nationalism, and imperialism; 20th-century world wars, the Great Depression, and Fascism. —W. McNeil
3 points. M W 11:00-12:15 S

HISTORY

HIS BC 3026y **Medieval Intellectual History**

—J. Kaye

3 points. M W 2:40-3:55

S

HIS BC 3033x **Foreign and Domestic Policies of the Soviet Union and Russia in the Period of Perestroika**

—G. Trofimenko

3 points. Tu Th 10:35-11:50

S

HIS BC 3038y **European Women in the Age of Revolution, 1750-1890**

An introduction to the history of European women from the eve of the Industrial Revolution, through the French Revolution and the Age of Imperialism. —D. Valenze

3 points. M W 1:10-2:25

S

HIS W 4275x **European International Relations, 1914 to the Present**

From the outbreak of the First World War to the Cold War and beyond, with a focus on the relationship between internal, social, economic and political structures of nation states as they influence the formation of foreign policy. —W. McNeil

3 points. M W 2:40-3:55

S

HIS W 1005x **Survey of Ancient Greek History, 800-146 BC**

—R. Billows

3 points. Tu Th 1:10-2:25

S

HIS W 1006x **The Romans and Their Empire**

—W. Harris

3 points. Tu Th 4:10-5:25

S

HIS W 1145x **Medieval People: Introduction to the European Middle Ages**

—C. Bynum

3 points. M W 11:00-12:15

S

HIS W 1150x **Introduction to European History: Renaissance to the Enlightenment**

—E. Rice

3 points. M W 6:10-7:00, plus 1 hour to be arranged. S

HIS W 1151y **Europe from the French Revolution to the Present**

—I. Woloch

3 points. M W 11:00-12:15

S

HIS W 3162x **Origins of Capitalism**

—J.W. Smit

3 points. Tu Th 2:40-3:55

S

HIS W 3685x **Introduction to the History of Homosexuality in the West**

—E. Rice

3 points. Tu Th 6:10-7:25

S

HIS W 3361x **History of the Soviet Union**

—M. Von Hagen

3 points. Tu Th 2:40-3:55

S

HIS W 3513x **Anti-Judaism and Anti-Semitism in Historical Perspective**

—Y. Yerushalmi

3 points. M W 11:00-12:15

S

HIS W 3518x **History of the Jews in Eastern Europe to the Polish Partitian**

—M. Stanislawski

3 points. Tu Th 10:35-11:50

S

HIS W 3519y **History of the Jews in Eastern Europe, 1772-1917**

—M. Stanislawski

3 points. Tu Th 10:35-11:50

S

HIS W 3205x **European Politics and Society, 1870-1919**

—S. Patriarca

3 points. Tu Th 10:35-11:50

S

HIS W 3206y **European Politics and Society since 1919**

—I. Déak

3 points. Hours to be announced.

S

HIS W 3227x **British History 1688-1832**

—D. Cannadine

3 points. Tu Th 1:10-2:25

S

HIS W 3228y **British History 1832-present**

—D. Cannadine

3 points. Tu Th 1:10-2:25

S

SEMINARS:

ANCIENT, MEDIEVAL, JEWISH, AND MODERN EUROPEAN HISTORY

HIS BC 3410y**The City in Europe**

A social history of the city in Europe from early modern times; the economic, political and intellectual forces influencing the growth of Paris, London, Vienna and other urban centers. —D. Valenze
Enrollment limited. Preregistration required.
 4 points. Tu 2:10-4:00 S

HIS BC 3427x**Women, Class and Culture**

The experience of European women with an emphasis on social class and culture. Topics include women in 18th century rural economies, women in the French Revolution, the impact of industrialization on women's work, Victorian womanhood and its contradictions, the growth of feminism and the impact of World War I. —D. Valenze
Enrollment limited. Preregistration required.
 4 points. Tu 2:10-4:00 S

HIS BC 3438y**Soviet (Russian)-American Relations Since the Second World War**

—G. Trofimenko
Enrollment limited. Preregistration required.
 4 points. Th 10:00-11:50 S

HIS BC 3439x**The Great War and the Modern World**

The course and impact of the First World War on modern society. Topics will include the social, economic, political, cultural and military transformation brought by the war with emphasis on Europe and the United States. —W. McNeil
Enrollment limited. Preregistration required.
 4 points. Tu 2:10-4:00 S

HIS BC 3416y**Medieval Science and Society**

—J. Kaye
 4 points. Th 2:10-4:00 S

HIS BC 3474y**The Holocaust in World History**

A history of European Jews during WWII, with a focus on events in individual countries. Topics include the position of Jews in Europe between the two world wars, the decision concerning the Final Solution, the death camps, Jewish Resistance and rescue, responses of non-Jewish institutions, and revisionisms. —S. Zuccotti
 4 points. W 2:10-4:00 S

HIS W 3778y**Women in the Middle Ages**

—C. Bynum
 4 points. Tu 2:10-4:00 S

HIS W 3871x**Social Origins of National Socialism Politics and Everyday Life: Germany 1914-45**

—A. Grossman
 4 points. W 2:10-4:00 S

HIS W 3872y**Seminar on Germany and East Central Europe, 1914-45**

—I. Déak
 4 points. Tu 4:10-6:00 S

HIS W 3907x**Jews and Christians in the Roman Empire**

—J. Rives
 4 points. Tu 11:00-12:50 S

HIS W 3965x**Institutions and Culture of Early Russia**

—R. Wortman
 4 points. W 4:10-6:00 S

HIS W 3969x**The Army in European Politics and Society, 1815-1945**

—I. Déak
 4 points. Tu 4:10-6:00 S

HIS W 3973y**Culture, Economy & Society in the Low Countries**

—J. Smit
 4 points. Tu 2:10-4:00 S

HIS W 3983x**The Making of the Modern British Monarchy**

—D. Cannadine
 4 points. W 4:10-6:00 S

HIS BC 3791x-3792y**Senior Research Seminar in European History**

Individual research and writing in medieval, early modern, and modern European history. See Requirements for the Major for details. —Staff
 4 points. Tu 4:10-6:00

HIS W 3965x**The Culture and Institutions of Old Russia**

—R. Wortman
 4 points. Th 4:10-6:00 S

HISTORY

LECTURES: AMERICAN HISTORY

HIS BC 1051x

Survey of American Civilization to the Civil War

The major theological and social concerns of 17th-century English colonists; the political and ideological process of defining an American; the social and economic forces that shaped a distinctive national identity; the nature of the regional conflicts that culminated in civil war. —H. Sloan
3 points. Tu Th 10:35-11:50 S

HIS BC 1052y

Survey of American Civilization since the Civil War

The major intellectual and social accommodations made by Americans to industrialization and urbanization; patterns of political thought from Reconstruction to the New Deal; selected topics on post-World War II developments. —R. Rosenberg
3 points. Tu Th 10:35-11:50 S

HIS BC 3052y

The Constitution in Historical Perspective

The development of constitutional doctrine, 1787 to the present. The Constitution as an experiment in republicanism; states rights and the Civil War amendments; freedom of contract and its opponents; the emergence of civil liberties; New Deal intervention and the crisis of the Court; the challenge of civil rights. —H. Sloan
3 points. Tu Th 2:40-3:55 S

HIS BC 3056y

The American Civil Rights Movement

An overview of the struggles made by some Americans in the 20th century to gain the civil rights they had historically been denied by other Americans. The focus will be on African-Americans until the latter part of the course when a broad range of civil rights movements will be examined. —D. Farber
3 points. Not offered in 1992-93. S

HIS BC 3067x

America since 1945

A consideration of the cold war, containment, and the atomic bomb; McCarthyism; the Civil Rights movement; the Vietnam War; student unrest and the counterculture; the response to the 1960s. Emphasis on relation between domestic and foreign affairs. —M. Carnes
3 points. M W 11:00-12:15 S

HIS BC 3071x

American Cultural History

Traces the development of modern American

culture, analyzing the “problem” of democracy in a mass society. Topics will include victorianism, modernism, postmodernism, technology, mass media, art, advertising, cultures of resistance and dissent and the emergence of “lifestyle.”
—Instructor to be announced.

3 points. M W 1:10-2:25 S

HIS BC 3074y

History of Sexuality

An introduction to sexual behavior and ideology in America from the colonial era to the present, with emphasis on the historical construction of sexuality. Topics include body culture and beauty, attempts to control sex and to define appropriate sexual behaviors, changing gender roles and sexuality, sex and rebellion, sex and utopias. —B. Bailey
3 points. Not offered in 1992-93. S

HIS BC 3082x

American Women in the 20th Century

A consideration of women’s changing place in modern America; the “family claim” women in the workplace; educational expansion; the battle for suffrage; social reformers; the sexual revolution; women in the professions; the crisis of depression and war; the feminine mystique; the new feminism. —R. Rosenberg
3 points. Tu Th 2:40-3:55 S

HIS BC 3085x

America in the 1960’s

From myth and memory to history: Vietnam, riots, liberalism, backlash, street heat, TV, LSD, anomie, Black Power, feminism. Other topics will include Sex, Drugs, Rock ‘n’ Roll. The 60’s will be re-opened for serious inspection. —D. Farber
3 points. Not offered in 1992-93. S

HIR V 3750y

Introduction to African-American History and Culture

An interdisciplinary approach to the field of African-American studies using work from history, religion, literature, film, music and philosophy. The focus will be on classic scholarly studies which deal with the African-American experience and on some of the major cultural productions of the black community. —J. Weisenfeld
3 points. M W 1:10-2:25 H

HIS W 1109x

Main Currents in American History, 1492-1877

—R. Bushman
3 points. M W 1:10-2:25 plus 1 hour to be arranged. S

HIS W 1110y**Main Currents in American History since 1877**

—J. Shenton

3 points. M W 6:10-7:25 plus 1 hour to be arranged. S

HIS BC 3075x**America in the Twenties**

—K. Donohue

3 points. M W 1:10-2:25

HIS BC 3476y**New York in Film and Literature**

—K. Donohue

3 points. M W 1:10-2:25

HIS W 3642x**The American Radical Tradition**

—E. Foner

3 points. M W 1:10-2:25 S

HIS W 3648y**History of the South**

—B. Fields

3 points. Tu Th 11:00-12:15 S

HIS W 3649x**America, 1920-1945:****Prosperity, Depression and War**

—A. Brinkley

3 points. M W 11:00-12:15 S

HIS W 3651y**The United States Since 1945**

—A. Brinkley

3 points. M W 11:00-12:15 S

HIS W 3115x**History of Women in America, 1700-1900**

—E. Blackmar

3 points. Tu Th 4:10-5:25 S

HIS W 3122y**America in the Era of Civil War and Reconstruction**

—J. Shenton

3 points. M W 1:10-2:25 S

SEMINARS: AMERICAN HISTORY**HIS BC 3444x****Bourgeois America**

The evolution and diffusion of bourgeois values and institutions from 1840 to 1900; evangelical Protestantism, women and Victorian gender roles; industrialization, urbanization and the role of labor; theologians, intellectuals and the path to empire. —M. Carnes

Permission of the instructor required.

Enrollment limited to 15.

4 points. M 2:10-4:00 S

HIS BC 3451x**Law and American Society**

Law in colonial America; contract and property in the New Republic; Tort Law and the rise of negligence; women and slaves; the science of law; the death of contract; the legal profession.

—R. Rosenberg

4 points. Not offered in 1992-93. S

HIS BC 3452x**Origins of the Constitution**

An examination of the creation of the Constitution; consequences of independence; ideological foundations; the Articles of Confederation and the Critical Period; the nationalist movement and the Convention; antifederalism and ratification; the Bill of Rights. Readings from selected secondary and primary sources, including *The Federalist*. —H. Sloan

4 points. Not offered in 1992-93. S

HIS BC 3460y**Modern American Conservatism**

—K. Donohue

4 points. To be announced.

HIS BC 3464x**Higher Learning in America**

An examination of the history of American colleges and universities from the colonies to the present; special emphasis on the evolving relationship between academic institutions and the political and social orders. —R. McCaughey

Prerequisite: HIS BC 1051-1052 or equivalent.

Enrollment limited. Preregistration required.

4 points. Tu 4:10-6:00 S

HIS BC 3466x**"And Hollywood Created Woman"**

—K. Donohue

4 points. Tu 4:10-6:00 S

ASH BC 3401x**Approaches to American Cultural History**

Colloquium—see American Studies for description. —N. Woloch

Enrollment limited. Preregistration required.

4 points. M 11:00-12:50 S

HIS BC 3480y**American Women since 1945**

—R. Rosenberg

4 points. Not offered in 1992-93. S

HISTORY

HIS BC 3489x The Fourteenth Amendment and Its Uses The role of the 14th Amendment in shaping the modern American Constitution; theories of judicial review; the rise and fall of economic due process; the creation of civil liberties; the civil rights revolution; the end of states' rights. —H. Sloan <i>Enrollment limited. Preregistration required.</i> 4 points. M 6:10-8:00	S	EHF C 3020 y Medicine and Western Civilization —D. Rothman 4 points. Tu 4:10-6:00	S
HIS BC 3461y Education in American History Seminar—see Education for description. —N. Woloch <i>Enrollment limited. Preregistration required.</i> 4 points. Tu 2:10-4:00	S	HIS W 3932x, y Seminar on Segregation and Racism —J. Shenton 4 points. W 4:10-6:00	S
HIS BC 3462y Plantation Societies in 17th and 18th Century British America —H. Sloan 4 points. Tu 2:10-4:00	S	HIS W 3925x The People of the Old South Before the Civil War —B. Fields 4 points. W 4:10-6:00	S
HIS BC 3793x-3794y Senior Research Seminar in American History Individually guided research in diverse aspects of American history and the presentation of results in seminar and in the form of the senior essay. See Requirements for the Major for details. —Staff <i>Open to senior majors; others by permission of the instructor.</i> 4 points. W 4:10-6:00	S	HIS W 3934x Immigrant and the City —A. Goren 4 points. Tu 9:00-10:50	S
HIS W 3832x Military History and Policy —K. Jackson 4 points. Tu 2:10-4:00	S	HIS W 3938y Black Urban America —H. Lynch 4 points. Tu 4:10-6:00	S
HIS W 3886y The United States During the 1960s —B. Tischler 4 points. Th 2:10-4:00	S	HIS W 3940x Seminar: History of the City of New York —K. Jackson 4 points. Tu 6:10-8:00	S
HIS W 3896 x Foundations of the American Republic —R. Bushman 4 points. Tu 4:10-6:00	S	HIS W 3948x A History of the Caribbean in the 20th Century —H. Lynch 4 points. Tu 4:10-6:00	S
HIS C 3932x Social Hierarchies in the Contemporary West —E. Blackmar 4 points. W 11:00-12:50	S	HIS W 3950y Comparative Urbanization —K. Jackson 4 points. Tu 6:10-8:00	S
HIS C 2950 x Historian's Craft —J. Shenton 4 points. Th 2:10-4:00	S	LECTURES: ASIAN, LATIN AMERICAN, AFRICAN AND MIDDLE EASTERN HISTORY HIS BC 1021x Late Imperial China, 1550-1900 An introduction to China during the late Ming and Qing dynasties, with emphasis on dynastic change, commercialization, urbanization, population growth, imperialist encroachment, and mid-19th century rebellion. —R. Lufrano 3 points. M W 2:40-3:55	S
		HIS BC 1022y China in the Twentieth Century Attempts at state formation and the rise of the revolutionary parties; foreign power intervention, economic crisis and development, and the rise of	

new social classes; the changing status of women and intellectual and cultural change. —R. Lufrano
3 points. M W 2:40-3:55 S

HIS W 3004y
African Cultures from
Pre- to Post-Colonial Times

—M. Wright
3 points. *To be announced.*

HIS W 3005x
Main Currents in African History

—Instructor to be announced.
3 points. *To be announced.*

EAS V 3450y
China's Sprouts of Capitalism

—M. Zelin
3 points. F 10:00-12:00

HIS W 3722y
South Asia in the 20th Century

—A. Jalal
3 points. Tu Th 10:35-11:50

HIS W 3858x
Main Currents in Middle Eastern History

—R. Bulliet
3 points. *To be announced.*

SEMINARS:
ASIAN, LATIN AMERICAN,
AND AFRICAN HISTORY

HIS BC 3430y
The Cultural Revolution in China

Origins, history, and the aftermath of one of the pivotal events in 20th-century Chinese history. Emphasis on ideological and power struggles, the role of the Red Guards and the army, and the effect of radical policies on society and economy. —R. Lufrano
Enrollment limited. Preregistration required.
4 points. Th 4:10-6:00 S

HIS BC 3799x, y
Independent Study

—Staff
4 points.

HIS W 3951x
Cuba and Haiti in the 19th Century

—D. Levenson-Estrada
4 points. Tu 6:10-8:00

OTHER OFFERINGS

Full description of courses offered by Barnard faculty of interest to students of history can be found elsewhere in this catalogue under the department or interdisciplinary program in

which the course is offered. For Columbia graduate history lecture courses open to undergraduates ("4000 level") and courses jointly sponsored with other Columbia departments, see the Columbia University Bulletin.

COURSES OFFERED AT
REID HALL IN PARIS

The following courses are offered in Paris. Additional information about the programs is available in 412 Lewisohn Hall.

History H 2503x, y
Introduction to
French Civilization and Culture

Contemporary French society in historical-cultural context: the weight of a centralized state, the defense of the French language, the Catholic tradition, France and Europe. These themes are presented, studied, and discussed in order to provide a basis for improving the comprehension of written and spoken French. —J-L. Margoulin
3 points. S

History-Political Science H 3240x, y
The State and Political Life in France from
the Revolution to the Present

The continuity and discontinuity of French political life during the past two hundred years. Factors that assure the permanence of French political life are often hidden from view because of frequent dramatic breaks and changes in political regimes. Through analysis of moments of turmoil and change, the underlying element of permanence is traced. Key dates indispensable to the study of contemporary France are discussed. —D. Hemery
3 points. S

History-Political Science H 3260y
The French Intellectual and France in Crisis:
from the Dreyfus Case to May 1968

The roles and influences of French intellectuals within the political arena and the national struggles of contemporary France. Special attention to moments of crisis; the Dreyfus case, the thirties, World War II, the Algerian War, etc. —N. Descendre
3 points. S

History H 3460x
Intellectual and Social History of Paris

A historical and architectural introduction from the city's origins to before World War II. Establishes links between the various components (topographical, administrative, religious, military, intellectual, economic, artistic, and social) that have contributed to the vitality of Paris and forged its image in the world. —N. Descendre
3 points. S

206 Milbank Hall

854-5418, 3577

Assistant Professor: Antonella Ansani

Instructor: Daniela Noè

Other officers of the University offering courses in Italian:

Professors: Teodolinda Barolini, Luciano Rebay¹

Assistant Professors: JoAnn Cavallo, Massimo Pesaresi

Lecturers: Margherita Repetto Alaia, Mario Bellati, Giuseppe Trapanese

¹Absent on leave Spring term.

For organizational purposes faculty teaching Italian language and literature courses will be included in the Department of German, Italian, and Linguistics.

Undergraduate instruction in Italian has long been fully and successfully integrated among the various undergraduate schools—Barnard College, Columbia College, and the School of General Studies. All courses are open to Barnard students. For students who have had some Italian, or who have a good knowledge of French or Spanish, but do not feel their background is strong enough for the intermediate course, the comprehensive elementary and intermediate course is recommended as the best way to review what they already know and rapidly proceed beyond it. The course in Italian written and oral style, though part of the requirements for a major in Italian, is open to all qualified students whose main goal is to improve their competence in the language as distinct from its literature.

A major in Italian offers the advantages of closely supervised work for a small number of students. Through the seminar in Italian literature, the major can study in a chosen area under the experienced guidance of a specialist.

The courses given in English have no prerequisites and should be attractive to students majoring in other departments who, nevertheless, wish to study Italian literature.

The Barnard Italian office is 206 Milbank Hall, and the Columbia department is housed in the Casa Italiana.

Graduate courses are open to qualified students upon consultation with the chair.

REQUIREMENTS FOR THE MAJOR

The courses in Italian are designed to develop proficiency in all the language skills and to present the literary and cultural traditions of Italy. The program of study is to be planned as early as possible.

The following courses are required unless advanced standing is attained by the department achievement test or by the Advanced Placement examination:

ITA V 1101-V 1102 *Elementary Full-Year Course*

ITA V 1201-V 1202 *Intermediate Course*

or

ITA V 1301-V 1302 *Comprehensive Elementary and Intermediate Course:*

10 courses are required for the major including:

ITA V 3333-V 3334 *Introduction to Italian Literature*

ITA V 3335-V 3336 *Italian Written and Oral Style*

ITA V 3993-V 3994 *Seminar in Italian Literature*

plus at least four more courses in Italian numbered above ITA V 1302.

REQUIREMENTS FOR THE MINOR

A minimum of five courses is required for the minor to be selected from courses including and numbered above V 3333-V 3334.

Language Requirement

The language requirement can be fulfilled with ITA V 1101-V 1102 and V 1201-V 1202 (or their equivalents) or with ITA V 1301-V 1302 (with permission of the department), followed by a one-year course in Italian literature. Students who have taken courses in Italian elsewhere (whether in high school, in college, or both) but not at Barnard, must take the Italian placement test before registering for any Italian course. The test is given during the preregistration period in 610 Casa Italiana.

COURSES OF INSTRUCTION

ITA V 1101x-V 1102y

Elementary Full-Year Course

Integral course for beginners with intensive oral-aural drill; reading, translation, conversation. No credit is given for V 1101 until V 1102 has been completed. —D. Noè and associates

Students must sign up for sections of this course with CU Registrar during the pre-registration period.

4 points.

Sec. 1, 2 M Tu W Th 9:00

Sec. 3, 4, 5, M Tu W Th 12:00

Sec. 6 M Tu W Th 1:10-2:00

ITA F 1101x-F 1102y

Elementary Full-Year Course

—T. Campbell and M. Praderio

4 points. Sec. 1, 2 Tu Th 6:10-8:00

ITA F 1102x-F 1101y

Elementary Full-Year Course

—S. Failla and associate

4 points. Sec. 1, 2 M W F 1:10-2:25

ITA W 1111x, W 1112y

Elementary Conversation

—M. Bellati

Prerequisite for W 1112: W 1111 or the equivalent, or sufficient fluency to satisfy the instructor.

2 points. Tu Th 1:10-2:25

ITA V 1201x, V 1202y

Intermediate Course

Review of the essentials of grammar; intensive and extensive reading, particularly from contemporary authors; translation, composition, and practice in conversation. —D. Noè and R. Crocitto

Prerequisite: V/F 1102 or the equivalent. Students must sign up for sections of this course in Room 610 Casa Italiana during the pre-registration period.

4 points. Sec. 1 M Tu W Th 9:00

Sec. 2 M Tu W Th 11:00

ITA F 1201x, F 1202y

Intermediate Course

—G. Trapanese

Prerequisite: V/F 1102 or the equivalent.

4 points. M W 6:10-8:00

ITA W 1221x, W 1222y

Intermediate Conversation

Intensive practice in the spoken language, assigned topics for class discussions, and oral reports. —M. Bellati

Prerequisite: Italian W 1112 or sufficient fluency to satisfy the instructor.

2 points. Tu Th 4:10-5:25

ITA V 1301x, V 1302y

Comprehensive Elementary and Intermediate Course

With permission of the chair, this course may be applied toward the fulfillment of the language requirement provided it is followed by a one-year course in Italian Literature.

Students must sign up for sections of this course in Room 610 Casa Italiana during the pre-registration period. Recommended for students who have studied other foreign languages and can acquire by intensive study the equivalent of a full year's work in elementary Italian grammar with stress on reading, writing, and conversing.

4 points.

Sec. 1 Tu Th 3:10-5:00 —M. Pesaresi

Sec. 2 M W 4:10-6:00 —G. Trapanese

ITA W 1311x, 1312y

Advanced Conversation

Practice in the spoken language through assigned topics on contemporary Italian culture. Conversation courses may not be used to satisfy the language requirement. —M. Bellati

Prerequisite: ITA W 1222 or permission of the instructor.

2 points. Tu Th 2:40-3:55

ITALIAN

ITA V 3335x, V 3336y

Italian Written and Oral Style

Written and oral self-expression in Italian; brief papers, translations, and oral reports on a variety of topics; grammar review. —A. Ansani

Prerequisite: two years of college language or the equivalent.

3 points. Tu Th 4:10-5:25

LITERATURE COURSES

For non-majors, the literature courses listed below will count toward the distribution requirement.

A complete list of literature course offerings, not ready at press time, will be available at registration. See Department list in Casa Italiana.

ITA V 3230y

The Italian Novella in the Middle Ages and the Renaissance

A study of the origins and development of the Italian novella as literary genre. Readings include selections from Boccaccio's Decameron and other 15th and 16th century novella writers.

—A. Ansani

3 points. M W 1:10-2:25 plus 1 hour to be arranged for Italian majors. H

ITA V 3333x, V 3334y

Introduction to Italian Literature (in Italian)

Introduction to literary theory and problems and to in-depth textual analysis. Authors and works from the thirteenth century to the present; the basic course in Italian literature. —V 3333: L.

Rebay; V 3334: T. Barolini

Prerequisite: V 1201-V 1202 or the equivalent.

3 points. M W 2:40-3:55 H

ITA V 3641x

The Italian Theatre in the Renaissance

The course will be devoted to the analysis of several major 16th-century Italian plays, concentrating on the comedies, but also examining the tragedy and the favola pastorale. Readings will include: Bernardo Dovizi da Bibiena, La calandria; Machiavelli, La mandragola, Ariosto, Il negromante, Aretino, Cortigiana; Trissino, Sofonisba and Tasso, Aminta. —A. Ansani

Prerequisite: V 1201 - V 1202 or the equivalent.

3 points. Not offered in 1992-93. H

ITA V 3993x-3994y

Seminar in Italian Literature

Required of students with a major or concentration in Italian. Open to other qualified students with permission of Departmental Representative.

—T. Barolini, M. Pesaresi, L. Rebay

Hours to be arranged. H

ITA G 4045y

Renaissance Prospectives:

Boiardo and Ariosto

—J. Cavallo

Open to qualified undergraduates with permission of the instructor.

3 points. M 4:10-6:00 H

ITA W 4091x-W4092y

Dante's Divina Comedia

Entire text is read over two consecutive semesters for a thorough grounding in the entire work.

—T. Barolini

Prerequisite: Reading knowledge of Italian. Open to qualified undergraduates with permission of the instructor.

3 points. Tu Th 10:00-11:50 H

LINGUISTICS

411f Milbank Hall

854-5363, 3577

Professor: Joseph L. Malone (Chairman)

Other Barnard officers offering courses listed below:

Professor: Sue Howard Larson (Philosophy)

Associate Professor: Robert Remez (Psychology)

Assistant Professor: Dirk Obbink

Other officers of the University offering courses listed below:

Professors: Robert Austerlitz (Linguistics), Haim Gaitman (Philosophy), Rado Lencek (Slavic), Harvey Pitkin (Anthropology), Leonardo Tarán (Classics), David Yerkes (English)

Associate Professors: Akeel Bilgrami (Philosophy), Gail Kaiser (Computer Science), Kathleen McKeown (Computer Science)

Assistant Professors: JoAnn Cavallo (Italian), Shaughan Lavine (Philosophy), Frank Miller (Slavic), Mark J. Petrini (Classics)

REQUIREMENTS FOR THE MAJOR

Students interested in majoring in this discipline may, upon consultation with the Departmental Chairman or his designated representative, petition the Committee on Programs and Academic Standing for a special major in Linguistics (see page 31).

REQUIREMENTS FOR THE MINOR

Students minoring in Linguistics must take five courses in the department, including V 1101.

COURSES OF INSTRUCTION

LIN V 1101x.

Introduction to Linguistics

Nature of language; characteristics of phonological and grammatical systems and the lexicon; evolution of language; role of linguistics in related disciplines; modern techniques of linguistic analysis. —J. Malone

Enrollment limited to 100 students. Advance sign-up required.

3 points. Tu Th 9:10-10:25

S

LIN V 3410y

The Science of Linguistics and the Art of Translation

Linguistic patterns and the application of linguistic techniques in both the process of translation and the comparison of original and translated versions of a text. Texts include literary, Biblical, and journalistic material in bi- or multi-lingual versions, and students will use materials in languages familiar to them for analysis and translation. —J. Malone

Prerequisite: V 1101 or permission of the instructor.

Enrollment limited to 25 students. Advance sign-up required. Offered in rotation with V 3412 and 3414.

3 points. Not offered in 1992-93.

S

LIN V 3412y

Linguistics and the Translation of Poetic Language

Linguistics as a tool in the translation of poems and other kinds of texts whose structure depends on phonetic and phonological patterns. Recent developments in linguistics (e.g. by Paul Kiparsky) relevant to the analysis of rhyme, meter, parallelism, and other sound-based configurations. Materials include mono-lingual and bilingual texts (poems, proverbs, etc., in several languages), some chosen by the instructor and others by the students. —J. Malone

Prerequisite: V 1101 or permission of the instructor.

Enrollment is limited to 25 students. Advance sign-up required. Offered in rotation with V 3410 and V 3414.

3 points. Tu Th 9:10-10:25

S

LIN V 3414y

Linguistics and the Structure of Texts

Application of linguistics techniques for elucidation of meaning and structure in various types of texts, especially poetry and prose. Modern techniques and traditional methods. Text used for illustration and analysis will be in various languages. —J. Malone

Prerequisite: V 11101 or permission of the instructor.

Enrollment is limited to 25 students. Advance sign-up required. Offered in rotation with V 3410 and V 3412. 3 points. Not offered in 1992-93.

LIN BC 3052y **Gender Systems**

The structure and function of gender systems and similar linguistic marking networks: systems based on sex (e.g. Spanish, Arabic), animacy (e.g. Ojibwa), shape (e.g. Chinese classifiers). Natural, arbitrary, and emblematic systems. Pronouns, syntax, and semantics; social implications of sex-based marking; measures taken to combat sexist effects. —J. Malone
Enrollment limited to 25. Prerequisite: V 1101 or permission of the instructor. Advance sign-up required. 3 points. Not offered in 1992-93.

LIN BC 3600y **Introduction to Semitic Languages and Linguistics**

The Semitic languages: historical development and typological nature. Reconstruction of ancestral languages; dialect relations; writing systems, philology; morphosyntactic, phonological, semantic characteristics. —J. Malone
Enrollment limited to 25. Advance sign-up required. Prerequisite: Previous or concurrent work in some Semitic language, or permission of the instructor. 3 points. Not offered in 1992-93.

LIN W 4204x **Introduction to Phonology**

The systemic deployment of speech sounds at the service of languages' morphosyntax. Alternational phonology; rules and representation; phonological features; linear and nonlinear phonology (autosegments, tiers); metrical and grid phonology; prosodology. —J. Malone
Prerequisite: For undergraduates either V 1101 or permission of the instructor. 3 points. Tu Th 10:35-11:50

LIN W 4108y **Principles of Historical Linguistics**

Language change and linguistic reconstruction. The comparative method and internal reconstruction; patterns of linguistic change, borrowing, analogy; language change as rule change; writing systems, philology. —J. Malone
Prerequisite: For undergraduates either V 1101 or permission of the instructor. 3 points. Tu Th 1:10-2:25

LIN W 4901x **Synchronic and Diachronic Generative Phonology**

The theory and practice of phonology from N. Chomsky's and M. Halle's *The Sound Pattern of English* (1968) and R. King's *Historical Linguistics and Generative Grammar* (1969) through the present. Phonological rules and representations viewed both through time (internal reconstruction, comparative method) and ahistorically. Some consideration of autosegmental, lexical, metrical and grid phonologies. —J. Malone
Prerequisite: for undergraduates either V1101 or permission of the instructor. 3 points. Not offered in 1992-93.

LIN W 4903x **Semantics and Generative-transformational Syntax**

Contemporary approaches to the relation between linguistic meaning and form, with special emphasis on work within the Chomskian tradition. Transformational and phrase-structure grammar, X-bar syntax. Government and Binding, interpretive and generative semantics, lexical decomposition, Logical Form. —J. Malone
Prerequisite: for undergraduates either V 1101 or permission of the instructor. 3 points. Not offered in 1992-93.

ANT G 4322x **Synchronic Linguistics**

—H. Pitkin
3 points. Tu 2:10-4:00

CSC W 4115x **Programming Languages and Translators I**

—G. Kaiser
3 points. M W 1:10-2:25

CSC W 4705y **Natural Language Processing**

—K. McKeown
3 points. Hours to be arranged.

LAT V 3012x **Lyric Poetry**

—G. Williams
3 points. M W 2:40-3:25

PHI 3411x **Symbolic Logic: Formal Introduction**

—H. Gaifman
3 points. Tu Th 11:00-12:15

PHI V 3415y
Symbolic Logic: Philosophical Introduction
 —H. Gaufman
 3 points. Tu Th 11:00-12:15

PSY BC 2160x
Cognitive Psychology
 —G. Musen
 3 points. Not offered in 1992-93.

PSY BC 3164y
Perception and Language
 —R. Remez
 3 points. Not offered in 1992-93.

PSY W 4132y
Production and Perception of Language
 —R. Remez
 3 points. Tu 6:10-8:00

LAT W 4139y
Elements of Latin Prose Style
 —J. Rives
 3 points. Tu Th 10:35-11:50

LIN G 4102x
Phonetics
 —R. Austerlitz
 3 points. Hours to be arranged.

LIN G 4006y
Linguistics in the Service of Literature
 —R. Austerlitz
 3 points. Hours to be arranged.

Italian G 4009y
Development of the Italian Language
 —J.A. Cavallo
 3 points. M 4:10-6:00

ENG W 4600x
History of the American Language
 —D. Yerkes
 3 points. Tu Th 11:00-12:50

FRE BC 3014x
Advanced Translation
 —A. Boyman
 3 points. Tu Th 10:35-11:50

GRE W 4139x
Elements of Greek Prose Style
 —D. Obbink
 3 points. Tu Th 9:10-10:25

GRE G 4140y
Greek stylistics
 —L. Tarán
 3 points. Tu Th 9:10-10:25

PHI V 4481y
Philosophy of Language
 —M. Gaifman
 3 points. W 2:10-4:00

RUS W 4432x
Contrastive Phonetics and Grammar of Russian and English
 —F. Miller
 3 points. Tu Th 2:40-3:55 plus 2 hours to be arranged.

RUS G 4103x
History of the Russian Language
 —R. Lencek
 3 points. Hours to be arranged.

Professor: Joan S. Birman

Associate Professor: David A. Bayer (Chair)

Assistant Professor: George Zettler

Other officers of the University offering courses in Mathematics:

Professors: Hyman Bass, George Daskolopoulos, David Farmer, Benji Fisher, Robert Friedman, Patrick X. Gallagher, Dorian Goldfeld, Herve M. Jacquet, Troels Jorgensen, Masatake Kuranishi, Boris G. Moishezon, Ngaiming Mok, John W. Morgan, Duong Hong Phong, Henry Pinkham, Andrew Winkler.

J. F. Ritt Assistant Professors: Huai-Dong Cao, Fred Diamond, Sidney Frankel, Xiao-Song Lin, Jonathan Pila, David Rana, Daniel Rockmore, Xiao-Chun Rong, Roberto Silvotti, Ki-Seng Tan, Peter Woit, Sive Wu.

The Mathematics Department offers a wide range of courses, which fall into groups: service courses for students who need to learn the tools of mathematics, courses in the majors' program in pure mathematics (including a regular track and an honors track), and courses in the majors' program in applied mathematics. Students interested in Computer Science should consult the program listing of that department, page 109.

GENERAL INFORMATION

A passing grade on the Basic Math Skills test is required for entry into any of the offerings of the Mathematics Department. Students who fail that test must pass Quantitative Reasoning BC 1001 *Basic Mathematics Skills* before they can be admitted to any mathematics courses.

The pre-calculus offering is W 1003, *College Algebra and Analytic Geometry*.

Mathematics V 1007 *Applied Linear Algebra* and C 1010 *Groups and Symmetries* are appropriate choices for students who are seeking a course which is not too difficult and which is distinctly different from high school mathematics. These courses are designed for students who do not intend to continue with any of the Calculus offerings.

The systematic study of college mathematics begins with one of the following three alternative four-term sequences: *Calculus IA, IIA, IIIA, IIIS/IVA* (MAT V 1101, V 1102, V 1205); *Calculus IS, IIS, IIIS/IVA* (MAT V 1105, V 1106, V 1205); *Honors Mathematics I, II, III, IV* (MAT V 1107, V 1108, V 1207, V 1208).

The A-sequence is a standard course in differential and integral calculus. The S-sequence covers the same topics as A, but is taught at a faster pace, so as to allow well-prepared students to cover more rapidly the calculus needed for their studies.

The S-Sequence covers in two semesters the same material as is covered in the A-sequence in three semesters.

CAUTION: Students who complete IS with a passing grade will not be allowed to take IIA for credit and will be unprepared for IIIA. Therefore, students who begin the S-sequence with Calc IS and wish to continue in Calculus will have to go on with IIS or take IIA as a non-credit course.

The four-term Honors Mathematics sequence is designed for students with strong mathematical talent and motivation. Included in the course is the material of the calculus sequences, so it does not presume high school calculus. However, it is a much more general introduction to mathematical methods and thought, including topics that are applicable in a wide variety of fields. It will not be repetitious for students who have had high school calculus. Classes are typically small and congenial. This is the most attractive and efficacious course available to mathematically talented freshmen, whether or not they intend to be mathematics majors. Students who contemplate taking Honors Mathematics should consult with the instructor. If this is not possible ahead of time, they should register and attend the first class. Transfer to a calculus course, if appropriate, can be easily arranged.

A fourth sequence on the first year level, *Calculus for Social Sciences I, II*, is designed for prospective Social Sciences and humanities majors.

Students who have passed the advanced placement test for *Calculus AB* with a grade of 5 or BC calculus with a grade of 4 or 5 will be allowed to start with *Calculus IIS* and receive 4 points of credit. Students with 3 or less on advanced placement will receive no credit. Those who passed *Calculus AB* with a grade of 4 will have to take a placement test with the Mathematics Department before being allowed to start with *Calculus IIS*. They will receive 4 points of credit only after passing *Calculus IIS*.

Students who have special placement problems should go to Room 404 Mathematics (or 404 Altschul) to arrange an appointment with a faculty member or the Chair during Orientation Week.

Two help rooms, one in 404 Mathematics and one in 404 Altschul, will be open all term (hours will be posted on the door), for students seeking individual help and counseling from the instructors and teaching assistants.

REQUIREMENTS FOR THE MAJOR

In the second half of the sophomore year or earlier, prospective majors should register with the chairman or with the administrative assistant (404 Altschul) to be assigned to a departmental adviser. The major programs in both pure and applied mathematics are appropriate for students who plan to continue their training in graduate school.

Students who are interested in an applied mathematics major with an emphasis on applications to economics should consult with a faculty member to plan an individual program.

Courses for a major in mathematics. 42 points (or 41 points if the Calculus S sequence is chosen): 11 or 12 points in *Calculus S* or *A* or *Honors MAT, I-IV*; 18 points in mathematics courses numbered above 2000; and 12 points in any combination of mathematics and cognate courses. The courses in mathematics must include MAT V 2010, V 3040-V 3041, W 4061- W 4062, and at least one term of MAT V 3951- V 3952. In exceptional cases, the Chair will approve the substitution of certain more advanced courses for those mentioned above.

Courses for a major in applied mathematics: 44 points (or 43 points if the Calculus S sequence is chosen): 11 or 12 points in *Calculus S* or *A* or *Honors Mathematics, I-IV*; 3 points in MAT V 2010; 3 points in MAT W 4061; 8 points in APM E 4901-4902 (2 points in the junior year), APM 4903-4904 (6 points in the senior year); 18 points in electives from the following courses: MAT V 2500; MAT V 3030; MAT V 3027; MAT V 3028; MAT V 3007; MAT W 4032; MAT W 4033; MAT W 4063 and W 4064; *Statistics—IEOR W 3658*; APM E 4300; and others (with the approval of the Applied Mathematics Committee). The electives should include MAT V 3030 or MAT V 3027, MAT V 3028 or *Statistics—IEOR W 3658*. Mat W 4061 can be replaced by MAT V 2500 or MAT W 4032.

REQUIREMENTS FOR THE MINOR

Six courses are required for the minor, consisting of courses numbered 1200 or above from the departmental offerings, subject to the approval of the chair.

COURSES OF INSTRUCTION

MAT W 1003x, 1003y

College Algebra and Analytic Geometry.

For students who do not have a firm enough grasp of basic mathematics to begin the study of calculus. Topics include: linear functions, introduction to the exponential and logarithm functions and to algebraic functions, trigonometry, vectors in the plane. —Staff

3 points.

x: Sec. 1 M W F 1:10-2:25

Sec. 2 M W 7:10-9:05

Sec. 3 Tu Th 9:00-10:55

Sec. 4 Tu Th 6:10-8:05

Sec. 5 Tu Th 6:10-8:05

y: Sec. 1 M W F 1:10-2:25

Sec. 2 M W 7:10-9:05

Sec. 3 Tu Th 9:05-10:55

Sec. 4 Tu Th 6:10-8:05

Sec. 5 Tu Th 6:10-8:05

MAT V 1007x

Applied Linear Algebra

Topics, especially suitable for the social sciences, include: linear and quadratic equations, systems of linear equations, matrices, linear programming the simplex method, difference equations, applications to economics and finance. —B. Moishezon

Prerequisite: High school algebra.

3 points. Tu Th 4:10-5:25

MAT V 1010y

Groups and Symmetry

An elementary introduction to the concept of a group. Groups of symmetries in art, architecture, and science. Groups of permutations. —D. Bayer

Prerequisite: Intermediate algebra and trigonometry.

3 points. M W F 9:00-9:50

MAT V 1011y

Surfaces and Knots

An elementary introduction to contemporary topology. Topological graph theory. Surfaces, knots, links and braids. —T. Stanford

Prerequisite: Intermediate algebra, geometry, and trigonometry.

3 points. M W F 9:00-9:50

MAT V 1101x, y

Calculus IA

Functions, limits, derivatives; introduction to integrals. —Staff

Prerequisite: a firm grasp of high school mathematics through trigonometry, or MAT W 1003 or the equivalent. The Help Room on the 4th Floor of Altschul Hall (hours posted on door), is open to students seeking indi-

vidual help from the instructors and teaching assistants. 3 points.

x: Sec. 1 M W F 10:00-10:50 —X. S. Lin

Sec. 2 M W F 10:00-10:50 —G. Daskalopoulos

Sec. 3 M W F 11:00-11:50 —X. S. Lin

Sec. 4 M W F 11:00-11:50 —G. Daskalopoulos

Sec. 5 M W 1:10-2:25 —K. S. Tan

Sec. 6 Tu Th 9:10-10:25 —TBA

Sec. 7 Tu Th 6:10-7:25 —X.C. Rong

y: Sec. 1 M W F 9:00-9:50 —D. Golfeld

Sec. 2 M W F 11:00-11:50 —G. Daskalopoulos

Sec. 3 M W F 4:10-5:25 —D.H. Phong

Sec. 4 Tu Th 6:10-7:25 —R. Silvotti

MAT V 1102x, y

Calculus IIA

Methods of integration; applications of the integral: Taylor's Theorem; infinite series. —Staff

Prerequisite: Course V 1101 or the equivalent.

3 points.

x: Sec. 1 M W F 9:00-9:50 —D. Farmer

Sec. 2 M W F 10:00-10:50 —D. Farmer

Sec. 3 M W F 4:10-5:25 —D.H. Phong

Sec. 4 Tu Th 6:10-7:25 —R. Silvotti

y: Sec. 1 M W F 10:00-10:50 —X.S. Lin

Sec. 2 M W F 10:00-10:50 —G. Daskalopoulos

Sec. 3 M W F 11:00-11:50 —X.S. Lin

Sec. 4 M W 1:10-2:25 —K.S. Tan

Sec. 5 Tu Th 9:10-10:25 —Instructor TBA

Sec. 6 Tu Th 6:10-7:25 —X.C. Rong

MAT V 1105x

Calculus IS

Differentiation and integration, applications, transcendental functions, techniques of integration. Lectures: 3 hours; problem session: 1 hour. Students must register for the problem session.

4 points.

Sec. 1 M W F 10:00-10:50 —D. Bayer

Sec. 2 M W F 10:00-11:50 —G. Zettler

Sec. 3 M W 1:10-2:25 —F. Diamond

MAT V 1106x, y

Calculus IIS

Improper integrals, Taylor's formula, infinite series, complex exponential vectors in \mathbb{R}^2 and \mathbb{R}^3 , vector-valued functions of one variable, scalar-valued functions of several variables, partial derivatives, gradient, surfaces, optimization and the method of Lagrange multipliers. Lecture: 3 hours; problem session: 1 hour. Students must register for the problem session. Some calculus background assumed.

Prerequisite: Course V 1105 or the equivalent.

4 points.

x: M W F 9:00-9:50 —T. Jorgensen
 y: Sec. 1 M W F 10:00-10:50 —D. Bayer
 Sec. 2 M W F 11:00-11:50 —G. Zettler
 Sec. 3 M W 1:10-2:25 —F. Diamond

MAT V 1107x, 1108y
Honors Mathematics I-II

For further information see the discussion under
 "General Information," page 180 —J. Morgan
 3 points. M W F 11:00-11:50

MAT V 1111x, 1112y
Calculus for Social Sciences I & II

The level of this course is the same as that of
 Mathematics V 1101, V 1102, but the syllabus is
 modified to meet the special needs of economics
 students. x: Derivatives, transcendental func-
 tions, curve-sketching, optimization problems in
 one variable, partial derivatives, optimization, y:
 integrals, differential equations, infinite series,
 Taylor's formula. V 1111: derivatives, transcen-
 dental functions, partial derivatives, optimiza-
 tion. V 1112: integrals, differential equations,
 infinite series, Taylor formula, applications of the
 calculus to probability. —S. Frankel
Prerequisite: Same as for V 1101, V 1102.
 3 points.

x: Sec. 1 M W F 10:00-10:50
 Sec. 2 M W F 11:00-11:50
 y: Sec. 1 M W F 10:00-10:50
 Sec. 2 M W F 11:00-11:50

MAT V 1201x, y
Calculus IIIA

Vectors in dimensions 2 and 3; vector valued
 functions and their derivatives; curves. Functions
 of several variables; partial derivatives; gradients;
 surfaces; extrema; double and triple integrals.
Prerequisite: Course V 1102 or the equivalent.
 3 points.

x: Sec. 1 Tu Th 10:35-11:50 —P. Woit
 Sec. 2 Tu Th 1:10-2:25 —J. Birman
 y: Sec. 1 M W F 10:00-10:50 —D. Goldfeld
 Sec. 2 Tu Th 6:10-7:25 —S. Wu

MAT V 1202y Calculus IVA
MAT V 1205x, y Calculus IIIS

Multiple integrals, Taylor's formula in several
 variables, line and surface integrals, calculus of
 vector fields.
Prerequisite: Course V 1106 or V 1201 or the equivalent.
 3 points.

1202y: Tu Th 1:10-2:25 —J. Birman
 1205x: Tu Th 10:35-11:50 —P. Woit
 Tu Th 1:10-2:25 —A. Winkler
 Tu Th 6:10-7:05 —S. Wu
 1205y: M W F 9:00-9:50 —T. Jorgensen

MAT V 1207x, 1208y
Honors Mathematics III, IV

— R. Friedman
Prerequisite: Course V 1107- V 1108. Course V
 1207 is the prerequisite for V 1208.
 3 points. Tu Th 10:35-11:50

MAT V 2010x or y
Linear Algebra

Vector spaces, linear transformations, matrices,
 quadratic and hermitian forms, canonical forms,
 applications. —O. McGuiness
Prerequisite: Calculus II S or III A or the equivalent.
 3 points. x: Tu Th 9:10-10:25
 y: Tu Th 4:10-5:25

MAT V 2500x
Analysis and Optimization

Topics in analysis used in optimization theory.
 Least upper bound, topology of \mathbb{R}^n , continuous
 functions, differential functions. Quadratic forms,
 Hessian, implicit functions. Convex sets, convex
 functions. Survey of linear, quadratic, geometric
 programming. Optimization under constraints
 equalities and inequalities. Algorithms. Elements
 of the calculus variations and optimal control.
Prerequisite: Calculus IS, IIS or the equivalent. Co-
 requisite: Linear Algebra.
 3 points. M W F 11:00-11:50

MAT V 3007y
Complex Variables

Elementary course in functions of a complex vari-
 able; fundamental properties of the complex num-
 bers; differentiability. Cauchy-Riemann equations;
 Cauchy integral theorem, Taylor and Laurent
 series poles and essential singularities; residue the-
 orem and conformal mapping. —R. Silvotti
Prerequisite: V 1205.
 3 points. Tu Th 10:35-11:50

MAT V 3020x
Elementary Number Theory

Congruences. Primitive roots. Quadratic residues.
 Contemporary applications. —G. Zettler
Prerequisite: one year of calculus.
 3 points. M W 1:10-2:25

MAT V 3021y
Combinatorial Number Theory

Advanced topics in number theory. Continued
 fractions. Approximations by rational numbers.
 Transcendental numbers. Arithmetic functions.
 Partitions of numbers and their generating func-
 tions. Stress on the combinatorial and algorithmic
 aspects of number theory. Contemporary
 applications. —G. Zettler

MATHEMATICS

Prerequisite: MAT V 3020 or MAT V 3040.
3 points. M W 1:10-2:25

MAT V 3027x **Ordinary Differential Equations**

Equations of order one: linear equations series solutions at regular and singular points, boundary value problems; selected applications. —A. Winkler
Prerequisite: MAT 1201 or the equivalent.
3 points. Tu Th 6:10-7:25

MAT V 3028y **Partial Differential Equations**

Introduction to partial differential equations; first-order equations; linear second-order equations; separation of variables, solution by series expansions; boundary value problems. —A. Winkler
Prerequisite: Course V 3027 or the equivalent.
3 points. Tu Th 6:10-7:25

MAT V 3030y **Dynamical Systems**

Systems, in particular, linear systems of differential equations; qualitative study of the solutions. Applications to population biology, economics, physics, and chemistry, as selected by the instructor. —P. Wait
Prerequisite: MAT V 3202 and MAT W 4061.
3 points. Tu Th 9:10-10:25

MAT V 3040x, y **Introduction to Modern Algebra**

The second term of this course may not be taken without the first. Groups, homomorphisms, ring ideals, fields, polynomials, and field extensions. Galois theory. —H. Pinkham
Prerequisite: MAT V 1205, V 2010.
3 points. M W 2:40-3:55

MAT V 3375y **Geometric Topology**

The fundamental group of a topological space; Seifert-Van Kampen Theorem, covering spaces, classification of 2-manifolds, simplicial homology. —X.C. Rong
Prerequisites: Courses V 3040 and W 4061 or their equivalents. This course is intended primarily for mathematics majors.
3 points. Tu Th 1:10-2:25

MAT V 3386x **Differential Geometry**

Local and global differential geometry of submanifolds of Euclidean 3-space; Frenet formulas for curves; various types of curvatures for curves and surfaces and their relations; Gauss-Bonnet theorem. —X.C. Rong
Prerequisite: Calculus IV or the equivalent.

Primarily for mathematics majors.
3 points. Tu Th 1:10-2:25

MAT V 3901 x, 3902y **Supervised Readings in Mathematics**

Guided reading and study in mathematics. A student who wishes to undertake individual study under this program must present a specific project to a member of the staff and secure his or her willingness to act as sponsor. Sponsorship is limited to full-time instructors on the staff list. Written reports and periodic conferences will be required. —Staff
Permission of the chairman and of the staff member who agrees to act as sponsor are required.
2 or 3 points. Hours to be arranged.

MAT V 3951 x, 3952y **Undergraduate Seminars in Mathematics**

Subject matter announced at the start of registration and is different in each section. Each student prepares talks, to be given to the seminar, under the supervision of a faculty member or senior teaching fellow. —x: H. Bass. y: B. Fisher
Prerequisite: Two years of calculus and at least one year of additional mathematics courses, and the permission of the department chairman.
3 points. Hours to be arranged.
Consult 4th floor bulletin board, Mathematics Building, for organizational meeting date and time, during registration period.

MAT W 4032x **Fourier Analysis**

Fourier series and integrals, discrete analogues, inversion and Poisson summation formulae, convolution, Heisenberg uncertainty principle. The course will stress the application of Fourier Analysis to a wide range of disciplines. —P. Woit
Prerequisite: Three terms of calculus and linear algebra or four terms of calculus.
3 points. Tu Th 2:40-3:55

MAT W 4033y **Calculus of Variations**

Euler-Lagrange equations, symmetry and conservation laws, Noether's theorem, Legendre transform. Other topics chosen by the instructor. The course will stress the application of calculus of variations to a wide range of disciplines.
Prerequisite: Three terms of calculus and linear algebra or four terms of calculus.
3 points. Not offered in 1992-93.

MAT W 4061x, 4062y

Introduction to Modern Analysis

The second term of this course may not be taken without the first. Real numbers, metric spaces, elements of general topology. Continuous and differentiable functions. Implicit functions. Integration; change of variables. Function spaces. Further topics chosen by the instructor. —B. Fisher

Prerequisite: MAT V 1205 or the equivalent, and MAT V 2010.

3 points. Tu Th 4:10-5:25

APM E 4901x-4902y

Seminar: Problems in Applied Mathematics

Required for all applied mathematics majors in the junior year. Introductory seminars on problems and techniques in applied mathematics. Typical topics of nonlinear dynamics, scientific computation, economics, and operations research. —C. Chu

Prerequisite or corequisite: MAT V 3007, V 3028, and V 2010, or their equivalents.

1 point. Tu 12:00-1:00

APM E 4093x-y

Seminar: Problems in Applied Mathematics

Required for all applied mathematics majors in the senior year. It consists of the same weekly lecture as Engineering Mathematics E 4901-4902 plus two hours of tutorials a week.

Examples of problem areas are nonlinear dynamics, asymptotics, approximation theory, and numerical methods. —C. Chu

Prerequisite or corequisite: MAT V 3007, V 3028, and V 2010, or their equivalents.

3 points. Tu 12:00-2:00, Th 1:00-2:00

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

This program is supervised by the Committee on Medieval and Renaissance Studies:

Professors of Art History: Keith Moxey, Jane Rosenthal

Professor of Classics: Lydia Lenaghan

Professors of English: Anne Prescott¹, Remington Patterson

Associate Professor of English: Christopher Baswell (Chair)

Assistant Professors of English: Erik Ryding, Timea Szell

Assistant Professor of French: Catharine R. Coats

Lecturer in German: Regina Ayre

Professor of History: Caroline Bynum (CU)

Assistant Professor of History: Joel Kaye

Assistant Professor of Italian: Antonella Ansani

Professor of Music: Hubert Doris

Professor of Religion: Robert Somerville (CU)

Professor of Spanish: Marcia Welles

¹Absent on leave 1992-93

This program enables undergraduates to acquire a thorough knowledge of the most important aspects of Medieval or Renaissance civilizations, and to gain an awareness of the interdependence of historical and cultural developments.

REQUIREMENTS FOR THE MAJOR

Major programs are established individually with a concentration in one of the disciplines: art history, history, literature, philosophy, romance philology, music, or religion. Each student, after consultation with the chair, chooses an adviser in her area of concentration who guides her in developing a sequence of courses to be taken in the field.

A minimum of 11 courses is required for the major in Medieval and Renaissance Studies:

Five courses in the area of concentration;

Two history courses for students not concentrating in history;

Two courses in the other disciplines mentioned above for those who are;

Two electives in areas outside the concentration, to be chosen in consultation with the adviser;

MRS BC 3998x and MRS BC 3999y, *Directed Research*, a two-semester program of interdisciplinary research leading to the writing of the senior essay. In some cases, a senior seminar in one of the departments may be substituted for MRS BC 3998x or 3999y.

Students are required to write an interdisciplinary senior essay based on two semesters of research in their field of concentration and in another discipline, carried out under the supervision of their area adviser and another from the second discipline. The choice of topic for this senior project and the appointment of a second adviser are determined in consultation with the area adviser and the chair of the program.

In addition to the language used to fulfill the general four-semester requirement for graduation, the student must have completed two semesters of a second language (or the equivalent) relevant to her area of concentration.

No minor is offered in Medieval and Renaissance Studies.

COURSES OF INSTRUCTION

MRS BC 3998x, 3999y

Directed Research for the Senior Project

Two semesters of supervised interdisciplinary research in Medieval or Renaissance Studies terminating in the writing of a senior essay. The program of research is determined in consultation with the chair and under the guidance of the area adviser. It is supervised by the latter and an adviser from the second discipline involved in the project.

—Staff

4 points. Hours to be arranged.

OTHER MEDIEVAL AND RENAISSANCE STUDIES COURSES

Art History ARH BC 3351x

Early Christian and Early Medieval Art

—J. Rosenthal

3 points. M W 2:40-3:55

H

Art History ARH BC 3352y

Art of the Later Middle Ages

—S. Murray

3 points. M W 2:40-3:55

H

Art History ARH W 3420x

Italian Sculpture during the Renaissance

Survey of developments from the 13th to the 16th century with special emphasis given to the art of Nicola Pisano, Giovanni Pisano, Quercia, Donatello, and Michelangelo. —J. Beck

3 points. M W 5:40-6:55

H

Art History ARH V 3475y

Art and Culture of the Northern Renaissance

—K. Moxey

3 points. Tu Th 10:35-11:50

Art History ARH W 4356

Gothic Painting in France

—J. Rosenthal

3 points. M W 4:10-5:25

Latin LAT V 3033y

Medieval Literature

—M. Lafferty

Prerequisite: Three semesters of college Latin or permission of the instructor.

3 points. M W 1:10-2:25

Latin LAT W 4152x

Medieval Latin Literature: Prose

—M. Lafferty

3 points. M W 4:10-5:25

English ENG BC 3155y

Chaucer

The Canterbury Tales. —C. Baswell

3 points. Not offered in 1992-93.

English ENG BC 3163x, 3164y

Shakespeare

—R. Patterson

3 points. M W 11:00-12:15

English ENG BC 3166x

Seventeenth Century Prose and Poetry

—E. Ryding

3 points. Tu Th 2:40-3:55

English ENG BC 3167x

Milton

—P. Loscocco

3 points. Tu Th 10:35-11:50

English ENG BC 3998y

1. The Middle Ages: Images of Women

—T. Szell

4 points. Th 4:10-6:00

**2. The Renaissance Comedy—
from Woods to City**

—R. Patterson

4 points. Th 2:10-4:00

French FRE 3032x

**Humanism and Reformation in
16th-Century France**

—C. Coats

3 points. M W F 12:00

History HIS BC 1004x

The High Middle Ages: 1050-1450

Social environment, political and religious institutions, and the main intellectual currents of the Latin West studied through primary sources and modern historical writings. —J. Kaye

3 points. Tu Th 10:35-11:50

S

History HIS BC 3026y

Medieval Intellectual History

—J. Kaye

3 points. M W 2:40-3:55

S

History HIS BC 3416y

Medieval Science and Society

—J. Kaye

Enrollment limited. Preregistration required.

4 points. Th 2:10-4:00

S

History HIS W 1145x

Medieval People: An Introduction to the European Middle Ages

A survey of medieval history from the fifth to the fifteenth century with special attention to social history. —C. Bynum

3 points. M W 11:00-12:15

Discussion hour to be arranged.

History HIS W 3778y

Women in the Middle Ages

The history of women from late antiquity to the fifteenth century with special attention to the social construction of gender roles and to women's own writings. Some background in medieval history is desirable. —C. Bynum

4 points. Tu 2:10-4:00

History HIS W 1150x

Introduction to the History of Europe 1: Renaissance to Enlightenment

—E. Rice

3 points. M W 6:10-7:00, plus one hour to be arranged.

History HIS W 4201y

The 12th Century Renaissance

The cultural history of western Europe from about 1070 to 1220, with an emphasis on the institutional and social setting of intellectual life. The bulk of the course will be devoted to a close study of select medieval texts in translation. These will include works of scholastic theology, mystical treatises, chronicles, romances and love poetry, and works of natural philosophy. —C. Bynum

3 points. M W 11:00-12:15

Italian ITA W 4091x-4092y

Dante's Divina Comedia

—T. Barolini

A knowledge of Italian is not required.

3 points. Tu Th 10:00-11:50

Philosophy PHI V 3232y

Renaissance Philosophy

A study of characteristic philosophical doctrines and issues of the Renaissance. Where appropriate the doctrines and issues are considered in relation to institutional, religious or scientific developments. —A. Gabbey

Prerequisite: One philosophy course or permission of the instructor.

3 points. Tu Th 1:10-2:25

Religion REL V 2610y

Christianity

Survey of Christianity from its beginnings through the Reformation. —C. Cooper

3 points. M W 4:10-5:25

Religion REL W 3530y

History of the Papacy

A survey of the papacy from its origins to the 16th-century Reformation. —R. Somerville

3 points. M W 4:10-5:25

Spanish SPA BC 3124x

Literature of the Golden Age

—M. Welles

3 points. Tu Th 2:40-3:55

Spanish SPA BC 3123y

Spanish Literature in the Middle Ages and the Early Renaissance

—M. Servodidio

3 points. M W 11:00-12:15

Spanish BC 3127y

Don Quijote

—M. Welles

3 points. M W 1:10-2:25

AHS V 3905y

Crosscurrents in the Arts and Literature of Spain, 1550-1800

—J. Tomlinson, M. Welles

3 points. W 4:10-6:00

For other Columbia courses and graduate courses, please consult the proper catalogues and see Professor Baswell.

MUSIC

Office: 409 Milbank Hall

Telephone: 854-5096, 3825

Professor: Hubert Doris (Chair)

Associates: Gail Archer, Deborah Birnbaum, Jane McMahan, Lynn Owen, Neil Semer

Other officers of the University offering courses listed below:

Professors: Ian Bent, Dieter Christensen, Jonathan Kramer, Fred Lerdahl, Leeman L. Perkins

Associate Professors: George Edwards, Walter Frisch, Brad Garton, Elaine Sisman

Assistant Professors: Mark De Bellis, Joseph Dubiel, Cynthia Gessele¹, Peter Manual, Jeff Nichols, Thomas Payne, David Rakowski, Mark Tucker

Associates: Anahid Ajemian, Eric Bartlett, Allen Blustine, Ronald Borrer, David Braynard, Marshall Coid, Kenneth Cooper, Maureen Gallagher, Christopher Gekker, Christine Gummere, Claire Heldrich, Mark Hill, Benjamin Hudson, Mindy Kaufman, Anthony Korf, Linda McKnight, Morris Newman, Niels Østbye, Donald Palma, Susan Palma, William Purvis, Matthew Raimondi, Ronald Roseman, George Rothman, Mark Shuman, Michael Skelly, George Stauffer, Lisa Terry

¹Absent on leave 1992-93

REQUIREMENTS FOR THE MAJOR

Program of Study: to be planned with the department consultant, preferably before the end of the sophomore year, and no later than the beginning of the junior year. Prospective music majors should complete the prerequisites by the end of their sophomore year. By the end of her first year as a music major the student should select a faculty adviser. (Students who have already entered the major will complete the program in accord with the requirements as listed in the 1988-89 catalogue. Any questions about the changes in required courses should be addressed to departmental chair.)

Prerequisite: *Fundamentals of Western Music* V 1001. Prospective music majors are advised to satisfy this prerequisite prior to their declaration as majors or before the end of their sophomore year. This requirement may be fulfilled either through successful completion of the course or satisfactory performance on examinations administered each semester by the Department.

Courses: a minimum of 34 points consisting of the following, Introduction to Music BC 1001-2, *Diatonic Harmony* V 2310, *Chromatic Harmony* V 2311, *Counterpoint* V 2312, and any one of the V 3000-level Advanced Theory electives; one 4000-level "Topics" course.

The student may fulfill the remaining 10 points with courses chosen from the 2000-4000 levels. No more than six points of courses at the V 2000-level may be counted toward the major. Majors are required to participate in an ensemble activity (chorus or orchestra or something comparable approved by the department). Up to four points of private lessons on an instrument or participation in a University performing ensemble may be counted toward the major.

Senior Exercise: Working with her adviser, a major must complete an original project in her senior year. Normally, it may be the expansion of a paper done in a 4000-level course (as long as it deals with primary sources), a composition, or a recital.

Keyboard Proficiency: the music major will be required to take a keyboard proficiency exam upon entrance into the first semester of theory. If she does not pass the exam, she will be required to take up to two semesters of piano that do not count toward the completion of the major.

Languages: for students who plan to do graduate work in music, the study of German, French, Italian and/or Latin is recommended.

Performance Concentration: Students wishing to concentrate in performance substitute

MUSIC

a recital for the Senior Exercise. These students may, beginning in the junior year, take lessons with the teacher of their choice through the College, but receive credit for the lessons upon petition.

With the permission of the Department Chair, students may take courses or lessons at the Manhattan School of Music or the Juilliard School. For non-majors, there is a six-semester limit, but majors may continue, for the remainder of their program.

Practice rooms: piano practice rooms are available, at a nominal fee, upon application to the Music Department in 703 Dodge. Application should be made during registration week and the first week of classes. Preference in assigning hours is given to students taking piano instruction, majors, and concentrators, in order of application. The organ studio in St. Paul's Chapel is available for organ practice. Arrangements should be made with the Chapel organist during the first week of classes.

REQUIREMENTS FOR THE MINOR

A minimum of five courses is required for the minor; three terms of Theory and two terms of History.

PERFORMANCE ACTIVITIES

Columbia University Orchestra, Mr. George Rothman, director. Membership is open to all members of the University community. See Music V 1591-V 1592 for the audition schedule and description of activities. Students who wish to receive course credit may register for the course as listed.

Barnard-Columbia Chorus, Ms. Gail Archer, director. Membership is open to all members of the University community.

Music for an Hour. This series of informal chamber concerts, held in the Sulzberger Parlor, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult the department.

Instrumental and Vocal Instruction. With appropriate prior approval, qualified students may take music lessons, one course per term for a maximum of six terms. The first two terms are unrestricted; during the **third and fourth** terms a student must take two courses in the history, literature, or theory of music concurrently with the music lessons. Only the Music major may take lessons every term. Students will receive one point of degree credit for each course but will be charged tuition at the rate of three or four points for each course. Written permission from the chair is required.

Collegium Musicum. This organization acquaints the student with certain neglected and unfamiliar masterpieces of vocal and instrumental music not heard in concerts elsewhere. Music majors are particularly urged to attend the meetings and to participate in performances.

COURSES OF INSTRUCTION

MUS BC 1001x, BC 1002y **An Introduction to Music**

Elements of musical structure designed to form intelligent listening habits, and of the several great epochs of music, with emphasis on their style and structure. — Staff

No previous knowledge of music is required.
3 points.

Sec. 1 M W 2:40-3:55 —H. Doris

Sec. 2 Tu Th 4:10-5:25 —Instructor to be announced

MUS V 1002x, y **Fundamentals of Western Music**

A student may place out of this course with a score of 5 on the Advanced Placement Examination or by an examination given by the Department at the beginning of the semester. The basic elements of music to be studied with the aim of developing musicianship will include: notation, dictation, sight-singing, transposition, aural recognition of the simpler forms, triad identification, cadence types, voice-leading in two parts. The required

one-hour lab is for drills. — Instructor to be announced.

4 points.

x: M W 9:10-10:25

x,y Lab: Sec. 1 M W 3:00-4:00
Sec. 2 Tu Th 3:00-4:00

y: Sec. 1 M W 9:10-10:25

Sec. 2 M W 5:10-6:25

Lab: Sec. 3 M W 3:00-4:00

Sec. 4 Tu Th 3:00-4:00

H

MUS BC 1501x, BC 1502y

Voice Instruction

Entrance by audition only (call Department during registration for time and place of audition). One hour private lesson weekly. — Instructor to be announced.
1 point. Hours to be arranged.

MUS V 2008x

Score Preparation Technique

A study of the conventions of musical notation and the production of musical scores and parts, aimed at enabling composers to communicate their musical thoughts to performers and analysts. —D. Rakowski
1 point. (Lab) Tu 11:00-12:15

MUS V 2010y

Race, Gender and the Politics of Rock'n'Roll

A study of rock music from the perspective of issues in contemporary cultural theory, with special emphasis on political significance and diverse representations of race and gender. —P. Manuel
Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001.
3 points. Tu Th 1:10-2:25

MUS V 2020x

Salsa, Soca, and Reggae:

Popular Musics of the Caribbean

A survey of the major syncretic urban popular music styles of the Caribbean, exploring their origins, development, and socio-cultural context. —P. Manuel
Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001.
3 points. Tu Th 1:10-2:25

MUS V 2015y

Music in the United States

Main currents in American musical life with emphasis on ragtime, jazz, hymnody, spirituals, blues, popular song and major works of Copland, Ives, Ellington, Gershwin, Billings, Foster, and Reich. —M. Tucker
Prerequisite: HUM C 1123 or the equivalent.
3 points. M W 4:10-5:25

H

MUS V 2016x

Introduction to Jazz

The musical and cultural features of jazz, beginning in 1900. —M. Tucker
Prerequisite: MUS F 1001 or MUS HUM C 1123 or the equivalent.
3 points. M W 1:10-2:25

H

MUS V 2023y

J.S. Bach

The life and works of J.S. Bach in their musical, cultural, and social milieu. —T. Payne
Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001.
3 points. Tu Th 6:10-7:25

H

MUS V 2023y

Mozart

The life, works, and cultural milieu of Wolfgang Amadeus Mozart, with emphasis on selected symphonies, string quartets, piano concertos, and operas. —E. Sisman
Prerequisite: MUS F 1001 or HUM C 1123 or the equivalent.
3 points. M W 1:10-2:25

H

MUS V 2026y

The Symphony

A survey of the literature of the symphony from 1750 to the present. —J. Kramer
Prerequisite: MUS F 1001 or HUM C 1123 or the equivalent.
3 points. M W 2:40-3:55

H

MUS V 2205x, y

MIDI Music Production Techniques

An introduction to the potential of digital synthesis by means of the MIDI (Musical Instrument Digital Interface). The goals of the course, in addition to teaching proficiency in elementary and advanced MIDI techniques, will be to challenge some of the assumptions about music built into the MIDI specifications and to foster a creative approach to using MIDI machines. — x: To be announced. y: B. Garton
3 points. Tu Th 1:10-2:25

MUS V 2310x

Diatonic Harmony

A study of the structures and principles of diatonic harmony: scales, key signatures; intervals; tonal functions; triads and sevenths; chord inversions; non-harmonic tones; pivot chords; secondary dominants; modulation. A two-hour lab will include parallel work in keyboard harmony, sight-singing, ear-training, and analysis.
Prerequisite: MUS V 1001 or the equivalent.

MUSIC

3 points.

- x: Sec. 1 M W 11:00-12:15 —J. Nichols
Sec. 2 Tu Th 9:10-10:25—Instructor to be announced
- y: Tu Th 9:10-10:25 —G. Edwards
- Lab: Sec. 1 M W 3:00-4:00
Sec. 2 Tu Th 3:00-4:00
Sec. 3 M W 3:00-4:00
Sec. 4 Tu Th 3:00-4:00

MUS V 2311x, y **Chromatic Harmony**

A study of the structures and principles of chromatic harmony: secondary dominants, neapolitan sixths, diminished sevenths; augmented sixth chords; ninth chords; chromatic sevenths. Each harmony will be illustrated in analyses of the tonal repertory. A one-hour lab will include parallel work in keyboard harmony, sight-singing, ear-training, and analysis.

Prerequisite: MUS V 2310.

4 points.

- x: Tu Th 9:10-10:25 —Instructor to be announced
- y: Tu Th 1:10-2:25 —F. Leydahl
- Lab: Sec. 1 M W 3:00-4:00
Sec. 2 Tu Th 3:00-4:00

MUS V2312x, y **Counterpoint**

A “generative” approach to the study of basic species counterpoint.

Prerequisite: MUS V 2310 and 2311.

4 points.

- x: Tu Th 1:10-2:25 —D. Rakowski
- y: M W 11:00-12:15 —J. Nichols
- Lab: Sec. 1 M W 3:00-4:00
Sec. 2 Tu Th 3:00-4:00

MUS V 3125x **Music of the Classical and Romantic Periods**

A survey of Western music from Haydn and Mozart to the death of Wagner. —E. Sisman

Prerequisite: HUM C 1123 or MUS F 1001 or V 1002, or the equivalent.

3 points. M W 1:10-2:25

MUS V 3126y **Music of the Modern Period**

A survey of Western music from the death of Wagner to the present. —W. Frisch

Prerequisite: HUM C 1123 or MUS F 1001 or V 1002 or the equivalent.

3 points. M W 1:10-2:25

***MUS V 2115y**

Instrumental Chamber Music from Haydn to Carter

A survey of instrumental chamber music from mid-18th century to the present, considered both as a social activity and as a means of artistic expression with well-defined genres, forms, and aesthetic expectations. —L. Perkins

Prerequisite: MUS HUM or the equivalent and permission of the instructor.

3 points. Tu Th 1:10-2:25

MUS V 3239x-V 3240y **Introduction to Composition**

Composition in the shorter forms. Basic issues of musical structure and expression will be explored in traditional and contemporary repertory. —D. Rakowski

Prerequisite: Course V 2301 or written permission of the instructor. *Corequisite:* MUS V 2008.

3 points. F 10:00-11:50

Additional hour to be arranged.

MUS V 3241x-V 3242y **Advanced Composition**

Composition in more extended forms. Survey of advanced techniques of contemporary composition. —J. Dubiel

Prerequisite: MUS V 3240y or permission of the instructor. *Corequisite:* MUS V 2008.

3 points. F 10:00-11:50

Additional hour to be arranged.

MUS V 3330y **Advanced Counterpoint**

The study of baroque counterpoint in the style of J.S. Bach, general aspects of voice-leading, dances, inventions, canons, expositions of fugues. This course fulfills the requirement of the 3000-level advanced theory elective. —J. Kramer

Prerequisite: MUS V 2310, V 2311, and V 2312.

3 points. Tu Th 9:10-10:25

MUS V 3345x **Rhythm and Meter**

Analysis of rhythm and meter in selected tonal compositions, applications to performance, study of recent theories of rhythm and meter by selected writers. —F. Lerdahl

Prerequisite: MUS V 2310, 2311, and 2312.

3 points. M 4:10-5:00 and W 3:10-5:00

MUS V 3360y **Pre-tonal and Tonal Analysis**

Detailed in-depth analysis of selected pre-tonal and tonal compositions.—W. Frisch

Prerequisite: MUS V 2310, 2311, and 2312.

3 points. M 4:10-5:00 and W 3:10-5:00

MUS V 3374y**Orchestration and Score Reading**

Lectures and practice in orchestration and score reading, supplemented by practical demonstrations of instruments. —H. Doris

Prerequisite: Course V 2101 or the equivalent.

3 points. Tu Th 10:35-11:50

MUS V 3350x, 3351y**Advanced Ear Training**

Dictation, sight singing, and musicianship, with emphasis on 20th-century music. —Instructor to be announced.

Prerequisite: Permission of the instructor. Priority will be given to qualified students concurrently enrolled in MUS V 2310, 2311, or 2312, and thereafter to music majors. Limited to 15 students.

1 point. W F 9:00-9:50

MUS V 3345y**Romantic Music through Romantic Eyes**

Music of 1830-1848 seen through the eyes of Romantic critics Berlioz, Schumann, Wagner, and others: opera, symphonic music, genre pieces, and song. —I. Bent

Prerequisite: HUM C 1123 or MUS F 1001, and MUS V 1002, or the equivalent.

3 points. Tu 3:10-4:00 and Th 3:10-5:00

Asian Humanities-Music AHM V 3320y**Introduction to the Musics of East Asia and Southeast Asia**

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations.—Instructor to be announced.

3 points. M W 6:10-8:00. One hour is a listening hour.

Asian Humanities-Music AHM V 3321x**Introduction to the Musics of India and West Asia**

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. — P. Manuel

3 points. Tu Th 4:10-6:00. One hour is a listening hour.

MUS V 3330y**Advanced Counterpoint**

The study of baroque counterpoint in the style of J.S. Bach; general aspects of voice-leading; dances, inventions, canons; expositions of fugues. — J. Kramer

Prerequisite: MUS V 2310, 2311 and 2312.

3 points. Tu Th 1:10-2:25

MUS V 3379x**20th Century Music**

— G. Edwards

3 points. Tu 9:00-9:50 and Th 9:00-10:50

MUS V 3380y**Music Since 1945**

Detailed analysis of selected compositions and discussions of various technical and aesthetic issues. Composers include Messiaen, Stravinsky, Boulez, Stockhausen, Babbitt, Carter, Penderecki, Cage, Reich, Glass, Pzewski, Rochberg, and others. — J. Kramer

3 points. Not offered in 1992-93.

MUS W 4000x**Writing About Music**

— M. Tucker

Prerequisite: permission of the instructor.

3 points. Not offered in 1992-93.

MUS W 4100y**Music and Society in 15th-Century Europe: from Dufay to Josquin**

— L. Perkins

Prerequisite: HUM C 1123 or MUS F 1001

and permission of the instructor.

3 points. Tu Th 4:10-5:25

MUS W 4170y**Duke Ellington**

— M. Tucker

Permission of the instructor required.

3 points. Tu Th 6:10-7:25

PERFORMANCE ACTIVITIES AND INSTRUMENTAL INSTRUCTION**MUS V 1585x, V 1586y****University Jazz Orchestra**

1 point. P/F only.

MUS V 1591x-V 1592y**University Orchestra and Chamber Music**

An audition to be held during registration period, by appointment at 703 Dodge Hall (x43825).

Students should bring two short works, or movements of longer works, of different stylistic periods; they will also be asked to read brief orchestral or chamber music excerpts at sight. The orchestra performs throughout the academic year in works spanning all periods of music including contemporary compositions. Distinguished guest soloists sometimes perform with the orchestra, and qualified student soloists may also have the opportunity to either perform or read concertos with the orchestra. Staff positions: a few persons interested in managerial work may gain experience as orchestra librarian and personnel manager.

Students who register for orchestra alone will receive four points for four semesters, and will be charged at the rate of one point each semester.

Students who register for orchestra and chamber music will receive four points for two semesters, and will be charged at the rate of four points each semester. — G. Rothman and staff
1 point. May be taken for Pass credit only.
M 5:30-8:00 and additional rehearsals in the three weeks preceding each public concert.

MUS V 1593x-V 1594y
Barnard-Columbia Chorus

Auditions by appointment made at the first class meeting. Students who register for chorus will receive a maximum of four points for four or more semesters, and will be charged at the rate of one point each semester. Open to all men and women in the University community. Several public concerts are given each season both on and off campus, often with other performing organizations. Sight-singing sessions offered. Repertory includes works from all periods of music literature.
 — G. Archer
Audition required. Pass/fail credit only.
1 point. Tu Th 6:00-8:00

MUS V 1595x-V 1596y
Barnard-Columbia Chamber Singers

A small number of students in the Barnard-Columbia Chorus are chosen to rehearse and perform difficult music in several languages.
 — G. Archer
Audition required.
1 point. Tu Th 8:00-9:30

MUS V 1598x-1599y
Chamber Ensemble and Chamber Orchestra

Students registering for chamber music receive ensemble training with the performance associates listed for MUS W 1525-W 1526. Student chamber ensembles perform a recital at the conclusion of each semester and are given other opportunities to perform throughout the academic year. — George Rothman and staff
1 point. Hours to be arranged.

MUS W 1509x-W 1510y
Organ Instruction

One one-hour lesson weekly. (3 points tuition).
 — G. Stauffer
Permission of the instructor required.
1 point. Hours to be arranged.

MUS W 1511x-W 1512y
Organ Instruction

One half-hour private lesson weekly. (3 points tuition).
Permission of the instructor required.
1 point. Hours to be arranged.

MUS W 1513x-W 1514y
Introduction to Piano

One half-hour private lesson weekly. (3 points tuition).
Sec. 1: —N. Østbye Sec. 2: —M. Skelly
1 point. Hours to be arranged with instructor.

MUS W 1515x-W 1516y
Elementary Piano Instruction

One one-hour private lesson weekly. (3 points tuition).
Prerequisite: W 1513-1514 or the equivalent and permission of the instructor.
Sec. 1: —N. Østbye Sec. 2: —M. Skelly
1 point. Hours to be arranged with instructor.

MUS W 1517x-W 1518y
Keyboard Harmony and Musicianship

One one-hour private lesson weekly. (3 points tuition).
Prerequisite: W 1513-1514 or the equivalent and permission of the instructor.
Sec. 1: —N. Østbye Sec. 2: —M. Skelly
1 point. Hours to be arranged with instructor.

MUS W 2515x-W 2516y
Intermediate Piano Instruction

One one-hour private lesson weekly. (3 points tuition).
Prerequisite: W 1515-1516 or the equivalent and permission of the instructor.
Sec. 1: —N. Østbye Sec. 2: —M. Skelly
1 point. Hours to be arranged with instructor.

MUS W 2517x-W 2518y
Intermediate Piano Instruction

One half-hour private lesson weekly. (3 points tuition).
Permission of the instructor required..
Sec. 1: —N. Østbye Sec. 2: —M. Skelly
1 point. Hours to be arranged with instructor.

MUS W 3515x-W 3516y
Advanced Piano Instruction

One one-hour private lesson weekly.
 (3 points tuition).

Prerequisite: W 2515-2516 or the equivalent and
 permission of the instructor.

Sec. 1: —N. Østbye Sec. 2: —M. Skelly
 1 point. Hours to be arranged with instructor.

MUS W 1525x-W 1526y
Instrumental Instruction

One one-hour private lesson weekly taught by
 associates in performance. See Columbia College
 Catalogue for section information. Students partic-
 ipating in the orchestra are given precedence when
 applying for private instrumental instruction.

Prerequisite: Audition (see under University
 Orchestra). (3 points tuition)

1 point. Hours to be arranged with instructor.

FLUTE: M. Kaufman, S. Palma; OBOE: M. Hill, R.
 Roseman; CLARINET: A. Blustine; BASSOON AND
 EARLY WIND INSTRUMENTS: M. Newman;
 FRENCH HORN: W. Purvis; TRUMPET: C.
 Gekker; TROMBONE: R. Borrer; TUBA: D.
 Braynard; DRUMS AND PERCUSSION: C.
 Heldrich, A. Korf; VIOLIN: A. Ajemian, M. Coid, B.
 Hudson, M. Raimondi; VIOLA: M. Gallagher; VIO-
 LONCELLO: E. Bartlett, C. Gummere, M. Shuman;
 STRING BASS: L. McKnight, D. Palma; HARPSI-
 CHORD: K. Cooper; VIOLA DA GAMBA: L. Terry.

This program is supervised by the Committee on Pan African Studies:

Professor of Anthropology: Joan Vincent

Professor of English and American Studies: Robert G. O'Meally

Lecturer in Political Science: Leslie J. Calman

Assistant Professor of Religion: Judith Weisenfeld

Dean of Studies: Vilma Bornemann

The Pan African Studies major is designed to provide students with a comparative perspective in their approach to the study of the history, politics, and cultures of peoples of African origin in Africa and the African Diaspora. The major is multi-disciplinary and differs from African Studies, Caribbean Studies and African-American Studies in that it encompasses the African influences in the experiences of peoples of African descent throughout the world.

REQUIREMENTS FOR THE MAJOR

- I. Two semester sequence - *Introduction to Africa* and *Introduction to the African Diaspora* (preferably to be taken before the junior year.)

Fall 1992 ANT V 3005x *Societies and Peoples of Africa.*

Spring 1993 HIR V 3750y *Introduction to African American History and Culture.*

One semester - Junior Colloquium in Pan African Studies

Spring 1993 REL V3804ySec. 37. *Black Women's Religious Experiences.*

PAS BC 3998x and PAS BC 3999y, *Directed Research*, a two-semester program of interdisciplinary research leading to the writing of the senior essay. In some cases, a senior seminar in one of the departments may be substituted for PAS 3998x or 3999y.

- II. Each student must demonstrate proficiency in any of the languages of Africa or the Diaspora (in addition to English) by completing at least the fourth semester of that language, or its equivalent. Languages may include Swahili, Hausa, Arabic, French, Spanish, Dutch, and Portugese.

- III. Each student will select one of the following tracks:

A. The Regional Track

In consultation with the adviser, and to provide coherence, the student will take four courses (from among those designated by the Committee on Pan African Studies) in one of the following geographic areas:

Africa

The Caribbean

Latin America

North America

B. The Divisional Track

In consultation with the adviser, and to provide coherence, the student will take four courses (from among those designated by the Committee on Pan African Studies) either in the social sciences or in the humanities.

- IV. In addition, in consultation with the adviser, the student will take two electives (from among those courses designated by the Committee on Pan African Studies.) The total number of courses for the major is 11, exclusive of the foreign language.

PHILOSOPHY

326 Milbank Hall

854-4689, 5417

Professors: Alan Gabbey, Sue Howard Larson, Mary Mothersill (Chair)

Assistant Professors: Noa Latham, Robert Myers

Adjunct Associate Professor: John Arras

Lecturers: Eric Katz (Environmental Science), John Lad

Other officers of the University offering courses in Philosophy:

Professors: Bernard Berofsky, Arthur C. Danto, Haim Gaifman, Richard F. Kuhns³, Jr., Isaac Levi¹, David Sidorsky

Associate Professors: Akeel Bilgrami, Charles Larmore¹, Thomas Pogge

Assistant Professors: David Albert, John Collins, Shaughan Lavine², Bonnie Kent, Wolfgang Mann, Christia Mercer

Visiting Professors: Michael Kelly

¹Absent on leave 1992-93

²Absent on leave Autumn Term

³Absent on leave Spring Term

The department offers a wide range of courses designed to acquaint the student with traditional and contemporary work in ethics, metaphysics, theory of meaning, aesthetics, theory of knowledge, and philosophy of logic. The courses are designed to facilitate student participation and each class is conceived as a workshop. The student is expected to develop a competence in technique of conceptual analysis, argument, and the interpretation of texts.

Philosophy BC 1001, *Introduction to Philosophy*, although not a requirement for the major, is recommended to students who have not had previous training in philosophy.

REQUIREMENTS FOR THE MAJOR

I. A major in Philosophy consists of at least 10 courses:

Philosophy V 3701	<i>Moral Philosophy</i>
Philosophy V 3411 or V 3415 or F 3410	<i>Symbolic Logic</i> <i>Formal Logic</i>

One of the following courses:

Philosophy V 3121	<i>Plato</i>
Philosophy V 3131	<i>Aristotle</i>
Philosophy V 1101	<i>The History of Philosophy: Pre-Socratics through Augustine</i>

One of the following courses:

Philosophy V 3222	<i>Descartes, Spinoza and Leibniz</i>
Philosophy V 3240	<i>Locke, Berkeley and Hume</i>
Philosophy BC 1201	<i>The History of Philosophy: Aquinas through Kant</i>

A course in a specific figure in the history of modern philosophy no later than Kant
or

One of the following courses:

Philosophy BC 3483	<i>Theory of Meaning</i>
Philosophy BC 3601	<i>Metaphysics</i>
Philosophy BC 3501	<i>Theory of Knowledge</i>

Two semesters of Philosophy BC 3288-BC 3289, *Majors' Seminar*, and three electives.

PHILOSOPHY

II. Department Examination—New Requirement:

Junior and senior comprehensives will be given in mid-spring semester of those years. The examinations will be take-home and will cover in a general way the course material. The Junior examination will be adjusted to the particular courses a student has taken up to that time. The Senior examination will cover the major as a whole. Performance on these examinations will be included in determining Honors.

The sequence of courses is to be determined in consultation with the major adviser. Philosophy BC 3288-BC 3289 may be taken either in the senior year or beginning in the second term of the junior year. The topic for the seminar is set each year on the basis of consultation with the students. A number of short papers will be required or, subject to departmental approval, a student may elect to write a Senior Essay.

Students who wish to complete a double or joint major including philosophy should consult the chair of the department as early in their planning as possible. Philosophy BC 3398, BC 3399, *Supplementary Readings in Philosophy*, is open to students who have a well-developed individual project with departmental approval and permission of the instructor.

REQUIREMENTS FOR THE MINOR

Five courses constitute a minor in philosophy. Courses are to be selected on the basis of consultation with the adviser.

Limited Enrollment Courses

First day attendance required. Instructor will determine and post class list. Prerequisites: one philosophy course or permission of the instructor unless otherwise specified.

COURSES OF INSTRUCTION

PHI BC 1001x, y
Introduction to Philosophy
Interpretation and analysis of major topics in ethics, metaphysics, theory of knowledge, readings from historical and contemporary sources. —Staff
Limited enrollment. No prerequisites. H
3 points.
x: Sec. 1 M W 11:00-12:15 —R. Myers
Sec. 2 M W 1:10-2:25. —S Larson
Sec. 3 Tu Th 10:35-11:50 —J. Lad
Sec. 4 Tu Th 1:10-2:25 —N. Latham
y: Sec. 1 M W 11:00-12:15 —M. Mothersill
Sec. 2 M W 2:40-3:55 —A. Gabbey
Sec. 3 Tu Th 10:35-11:50 —R. Myers
Sec. 4 Tu Th 2:40-3:55 —J. Lad

PHI V 1101x
The History of Philosophy: I
Exposition and analysis of the positions of the major philosophers from the pre-Socratics through Augustine. —B. Kent
3 points. Tu Th 2:40-3:55. H

PHI BC 1201
The History of Philosophy: II
3 points. Not offered in 1992-93. H

PHI V 3121x
Plato
An introduction to the leading concepts and doctrines of Plato's philosophy through analysis of selected texts in logic, physics, psychology, and metaphysics. —W. Mann
3 points. Tu Th 2:40-3:55 H

PHI V 3131
Aristotle
3 points. Not offered in 1992-93. H

PHI BC 3147y
Philosophical Issues of Feminist Theory
Philosophical study of some recent feminist texts together with the appropriate philosophical texts. —S. Larson
3 points. M W 1:10-2:25 H

PHI BC 3161
Greek Philosophy
3 points. Not offered in 1992-93.

<p>PHI V 3222x Descartes, Spinoza and Leibniz A systematic analysis of 17th century rationalism. —A. Gabbey <i>Prerequisite: One philosophy course or permission of the instructor.</i> 3 points. M W 11:00-12:15</p>	<p>Treatment by these methods of arguments in ordinary language. Relations of the concepts of truth, proof, interpretation and validity. The relation of logic to science.—H. Gaifman 4 points. Tu Th 11:00-12:15</p>
<p>PHI V 3232y Renaissance Philosophy A study of characteristic philosophical doctrines and issues of the Renaissance. Where appropriate the doctrines and issues are considered in relation to institutional, religious or scientific developments. —A. Gabbey <i>Prerequisite: One philosophy course or permission of the instructor.</i> 3 points. Tu Th 1:10-2:25</p>	<p>PHI V 3415y Symbolic Logic: Philosophical Introduction This course aims at imparting a good understanding of sentential and first-order logic, the significance of a formal system and its use for analysis of meaning and language. It combines technical exercises with analysis and parsing of English texts. —H. Gaifman <i>Prerequisite: One philosophy course or permission of the instructor. A student may not take both V3411 and V3415 for credit.</i> 4 points. Tu Th 11:00-12:15</p>
<p>PHI V 3240y Locke, Berkeley and Hume A study of the principal topics of British empiricism. —A. Gabbey <i>Prerequisite: One philosophy course or permission of the instructor.</i> 3 points. M W 11:00-12:15</p>	<p>PHI V 3483y Theory of Meaning Considerations of questions about the nature of language and truth, with attention to the role of the concept of truth in constructing theories of meaning for natural languages. Readings from Frege, Austin, Davidson, and others. —S. Larson <i>Prerequisite: One philosophy course or permission of the instructor.</i> 3 points. Tu Th 2:40-3:55</p>
<p>PHI V 3251 Kant 3 points. Not offered in 1992-93.</p>	<p>PHI BC 3501 Theory of Knowledge 3 points. Not offered in 1992-93.</p>
<p>PHI V 3270 Nineteenth Century Philosophy 3 points. Not offered in 1992-93.</p>	<p>PHI BC 3601 Metaphysics 3 points. Not offered in 1992-93.</p>
<p>PHI V 3301y Twentieth Century Philosophy 3 points. Not offered in 1992-93.</p>	<p>PHI BC 3651 Philosophy of Mind 3 points. Not offered in 1992-93.</p>
<p>PHI BC 3352 Recent European Philosophy <i>Prerequisite: One philosophy course or permission of the instructor.</i> 3 points. Not offered in 1992-93.</p>	<p>PHI BC 3680x Attitude, Action and Reason The roles of reason and causality in the analysis and explanation of action, emotion, and weakness of will. Readings from Plato, Aristotle, Hume, James, Darwin, Freud, Sartre, Davidson and others. —N. Latham <i>Prerequisite: One philosophy course or permission of the instructor.</i> 3 points. Tu Th 1:10-2:25</p>
<p>PHI BC 3364x Wittgenstein Wittgenstein's views in relation to Frege and Russell. Discussion of the central problems in his books e.g., logical form, truth, rule-following, privacy, certainty, and psychological concepts. —S. Larson 3 points. Tu Th 2:40-3:55</p>	<p>PHI V 3701x, y Moral Philosophy Introduction to the central problems of moral philosophy; alternative moral ideals and their philosophical formulations; the status and justification of moral judgments; reasons for action;</p>

PHILOSOPHY

rights, obligation in the issue of justice.
Limited enrollment in and prerequisite in Fall: one philosophy course or permission of the instructor.
3 points.
x: M W 2:40-3:55 —M. Mothersill
y: Tu Th 2:40-3:55 —D. Sidorsky H

PHI BC 3715y
Topics in Moral Philosophy
Consequentialism. Some historical sources and recent criticisms of the idea that the rightness or wrongness of an action is simply a function of the goodness or badness of its consequences. Readings from Hume, Mill, Williams, Scheffler, Rawls and Scanlon. —R. Myers
Prerequisite: One philosophy course or permission of the instructor.
3 points. M W 1:10-2:25 H

PHI BC 3720x
Ethics and Medicine
Philosophical examination of moral issues in medical theory and practice. Analysis of the ethics of the doctor-patient relationship, e.g., informed consent, truth-telling, paternalism; topics in bioethics, e.g., abortion, euthanasia, experimentation on humans, justice and access to health care, human genetics.—J. Arras
Limited enrollment.
3 points. Tu 2:30-5:30 H

PHI BC 3751
Social and Political Philosophy
3 points. Not offered in 1992-93. H

PHI BC 3758x
Philosophy of Education
Drawing on classical and contemporary authors, discussion with focus on the question of the conditions requisite for producing free and responsible individuals. Readings from Plato, Rousseau, Dewey and others. —R. Myers
No prerequisites.
3 points. M W 4:10-5:25 H

PHI BC 3780
Philosophy of Law
3 points. Not offered in 1992-93. H

PHI V 3801
Aesthetics
3 points. Not offered in 1992-93. H

PHI V 3803y
The Concept of Beauty
An introduction to aesthetics by way of an attempt to develop a systemic theory of the beautiful in nature and in art. The theory is

tested against critical findings in fields of music, literature, dance, and the visual arts. Readings from classical and contemporary sources.
—M. Mothersill
3 points. Tu Th 2:40-3:55 H

PHI V 3850
Concept of Literature
3 points. Not offered in 1992-93. H

PHI V 3881x
The Idea of God
Arguments for and against belief in God, the relevance of rationality to theistic belief, the attributes of God, religious experience, the relation of religion to morality. Focus is primarily on the Judeo-Christian tradition. Readings drawn from classical and contemporary sources. —N. Latham
Prerequisite: One philosophy course or permission of the instructor.
3 points. Tu Th 10:35-11:50 H

PHI BC 3925x
Skepticism
The nature and significance of philosophical skepticism, focusing on the connection between skepticism about causation and the external world, on the one hand, and skepticism about other minds and values, on the other. Readings from Hume and Kant, Ayer and Wittgenstein, and others. —R. Myers
Prerequisite: One philosophy course or permission of the instructor.
3 points. Tu Th 1:10-2:25 H

PHI BC 3288x, 3289y
Majors' Seminar
Intensive study of selected philosophical classics; discussions, oral reports, and term papers.
3 points.
x: W 4:00-6:00 —S. Larson
y: W 4:00-6:00 —N. Latham H

PHI BC 3399x, 3399y
Supplementary Readings in Philosophy
To be taken only with the consent of the instructor or the department chair.
3 points. H

ESP BC 3025y
Ethics and the Environment
Philosophic examination of the relationship between humanity and nature with a focus on the moral justifications for environmental policies. Topics include: the utility of the natural environment, responsibilities to future generations, and the moral consideration of nature.

Readings from several disciplines: philosophy, ecology, economics, political theory. —E. Katz
No prerequisites.
3 points. Th 2:40-5:10

PHI V 3380
Habermas
3 points. Not offered in 1992-93.

PHI BC 3576
Physics and Philosophy
3 points. Not offered in 1992-93.

PHI V 3610
Metaphysics of Logical Atomism and the Tractatus
3 points. Not offered in 1992-93.

PHI V 3657
Philosophical Idealism and Psychoanalytic Theory
3 points. Not offered in 1992-93.

COURSES OFFERED AT REID HALL IN PARIS

H The following course is offered at Reid Hall in Paris. For additional information about the programs available, consult the Reid Hall Programs Bulletin available in 412 Lewisohn Hall.

H **Philosophy H 3550x, y**
Aspects of Contemporary French Thought
An overview of recent developments in French Philosophy through analysis of contemporary positions; a critical examination of the main trends of present-day thought. Attendance at selected lectures by Jacques Derrida at the College de Philosophie and Gilles Deleuze at the Université de Paris VIII. —L. Laveggi
Recommended preparation: an introductory course in philosophy.
3 points. H

H

Senior Associates: Sharon Everson, Jean Follansbee (Chair)

Lecturer: Molly Wynne

Associates: Priscilla Gilmore, Wendy Marks, Mary Beth Murray

DEGREE REQUIREMENT

Students admitted as first year students must complete two semesters of Physical Education at Barnard. One semester must be passed in the first year and the requirement must be completed by the end of the sophomore year. Sophomore and junior transfers are required to complete one semester of Physical Education at Barnard. Transfers are expected to complete their requirement by the end of the junior year. Failure to complete the requirement by the specified deadlines will result in a failing grade. Physical Education courses are graded pass-fail based on attendance and participation.

Health Status: Students with permanent or temporary disabilities will be individually advised and placed in a suitable activity, based upon the recommendations of the Staff Physician.

Curriculum: The curriculum is organized and administered by the faculty of the Department of Physical Education. Instruction is offered in the areas of sports, aquatics, fitness, aerobics, and other specialized courses. Modern dance, ballet, tap, and jazz dance courses are offered under the auspices of the Dance Department and may be taken to fulfill the Physical Education requirement. Courses are designed to promote the development and enjoyment of lifetime motor skills which will afford opportunities to realize one's potential and to provide vigorous exercise to release tensions often generated by strong academic commitments and intense urban life.

Intramurals: The Physical Education Department offers an extensive intramural program which features badminton, basketball, bowling, indoor soccer, wiffle ball, tennis, and volleyball. The program emphasizes participation in a friendly, competitive atmosphere; activities are open to all members of the college community. For more information contact the Director of Intramurals, 206 Barnard Hall, or call 854-6940.

Recreation: Recreational use of the gymnasium, swimming pool, track, weight room, and bowling alleys is available at specified times. All students, faculty, and staff are encouraged to participate and use the facilities.

Intercollegiate Athletics: The Barnard/Columbia Athletic Consortium provides the opportunity for eligible undergraduate women to compete together as members of University-wide athletic teams. Eleven varsity sports are currently sponsored: Archery, Basketball, Crew, Cross Country, Fencing, Soccer, Swimming & Diving, Tennis, Indoor and Outdoor Track & Field and Volleyball. Governed by NCAA and Ivy League rules, all teams are Division I. Competition is scheduled with teams from the Ivy League, the metropolitan area, and the eastern region. In addition students are eligible to qualify for state, regional and national championships. Physical Education credit may be earned through satisfactory participation on a varsity team.

For more information contact Merry Ormsby, Associate Director of Athletics, Columbia-Dodge Fitness Center, 854-8373, or check for information in the Physical Education Department in Room 209, Barnard Hall.

Registration: Registration for the term takes place in the gymnasium at the beginning of each semester. After confirming registration with the Physical Education Department students should include the Physical Education course by number, section, title and I.D. number on final programs filed with the Registrar.

Cross Registration: An agreement between the Department of Physical Education of Barnard College and Columbia College permits limited enrollment of Barnard students in selected Columbia courses. Barnard students must successfully complete one Physical Education course at Barnard before they may elect a Columbia Physical Education course. Columbia College and Engineering School students may register for designated Barnard courses during Barnard's registration period. Other Columbia University students must receive permission from the Physical Education Department to register before filing their final program with the Registrar.

Courses: Classes are organized in homogeneous skill groups for optimal learning. Students are advised to register according to their own skill level: Beginning, Advanced Beginning, Intermediate.

COURSES OF INSTRUCTION

PED BC 1101x, y **Lifetime Fitness and Wellness**

Introduction to the fundamental principles of wellness and physical activity including physical fitness, health and wellness assessments. Topics include practical concerns for self-management within an active lifestyle and disease prevention.

AQUATIC COURSES

PED BC 1120x, y **Beginning Swimming**

Development of confidence and safety skills in the water. Introduction of front crawl, elementary backstroke and deep water skills. No previous experience required.

PED BC 1121x, y **Advanced Beginning Swimming**

Review of safety skills, front crawl and elementary backstroke. Further development of deep water skills. Introduction of breaststroke.

PED BC 2122x, y **Intermediate Swimming**

Further development of the front crawl, elementary backstroke, and breaststroke. Introduction of basic rescue techniques, sidestroke, backcrawl and open turns.

PED BC 2129x **Emergency Water Safety**

Identification of water hazards. Introduction to accident prevention and effective rescue techniques. Prerequisite for PED BC 3129y *Water Safety Instructor*.

PED BC 3125x, y **Lap Swim**

Students determine an individual training program with the instructor on a contract basis. *Not open to first-year students. Swimming fitness test for class admission given prior to first class meeting.*

PED BC 3129y **Water Safety Instructor Course**

Review of swimming skills and instruction in teaching techniques for preschool through swimmer courses and elementary forms of rescue; leads to American Red Cross certification. *Successful completion of PED BC 2129x or PED BC 3131x or equivalent American Red Cross certification. Swimming test for class admission given prior to first class meeting.*

PED BC 3131x **Lifeguard Training and First Aid**

Pool management, preventive lifeguarding, swimming and equipment rescues; leads to two American Red Cross certifications. *Swimming test for class admission given prior to first class meeting.*

PED BC 3132y **Lifeguard Training Instructor**

Review of lifeguard training skills and instruction in teaching techniques; leads to American Red Cross certification. *Current CPR, First Aid and Lifeguard Training certificates required.*

SPORTS COURSES

PED BC 1350x, y **Archery**

Techniques of shooting target archery. Individualized instruction for all levels; selection and care of equipment; safety; intraclass tournaments and novelty shoots.

PED BC 3898x, y **Varsity Team-Archery**

Practice and intercollegiate competition in Indoor Target Archery. *Permission of coach required. For other varsity teams see Columbia course offerings.*

PED BC 1353x, y
Badminton

Strokes, strategies, singles and doubles play. Intraclass tournaments provide competition for all levels.

PED BC 1357x, y
Beginning Bowling

Basic techniques of spot bowling and spare conversion; scoring and game play.

PED BC 1360x, y
Beginning Fencing

Basic offensive and defensive foil techniques; footwork; rules and officiating.

PED BC 1361y
Advanced Beginning Fencing

Expansion of basic skills and tactics; use of electrical apparatus; intraclass tournaments and development of officiating skills.

Completion of Beginning Fencing or permission of the instructor required.

PED BC 1362x, y
Golf

Introduction to the game of golf through a variety of indoor drills to develop all facets of the game; includes proper club selection, effective swing techniques and the "long and short" game.

PED BC 1363y
Indoor Soccer

Fundamentals of soccer skills including dribbling, passing, marking and offensive and defensive strategies.

PED BC 1364x, y
Beginning Tennis

Fundamentals of forehand, backhand and serve. Introduction to rules, scoring and etiquette.

PED BC 1365x, y
Advanced Beginning Tennis

Refinement of forehand, backhand, and serve. Further instruction in scoring, rules, tactics, and etiquette. Introduction of the volley and doubles play. *Completion of Beginning Tennis or permission of the instructor is required.*

PED BC 2366x, y
Intermediate Tennis

Further development of ground strokes, serve, service return; net play; doubles play. *Completion of Advanced Beginning Tennis or permission of the instructor required.*

PED BC 1470x, y
Volleyball

Introduction of forearm pass, overhead pass, serve and spike, and basic offensive and defensive strategies of power volleyball.

FITNESS COURSES

PED BC 1582x, y
Aerobics

Combination low/moderate impact cardio-vascular exercise performed to a variety of music. Muscle toning exercises also included.

PED BC 1359x, y
Self-Paced Cycling

Individualized program of aerobic exercise utilizing stationary cycles performed on a contract basis.

Completion of one physical education course required. Cycling test for class admission given prior to first class meeting.

PED BC 1583x, y
Beginning Fitness

Introduction to a variety of conditioning programs; improvement of flexibility, strength, and cardiovascular efficiency.

PED BC 1584y
Advanced Beginning Fitness

Continuation of beginning fitness; designed for the individual at a medium level of fitness.

PED BC 2584y
Intermediate Fitness

Intensive fitness program for students who have taken BC 1583 and/or BC 1584 or who have been engaged in a vigorous conditioning program.

PED BC 1585x, y
Beginning Weight Training

Introduction to principles of weight training; use of the Universal Weight Machine and free weights. Programs tailored to individual needs with an emphasis on lifetime fitness.

PED BC 1586y
Advanced Beginning Weight Training

Continuation of beginning weight training; emphasis on free weights and individualized training.

Completion of Beginning Weight Training or permission of the instructor required.

SPECIAL COURSES

PED BC 1690x, y
Beginning Self-Defense

Development of confidence, using basic defensive and offensive moves, so that a person can handle a threatening situation effectively and with minimal confrontation.

PED BC 1693x, y
Beginning Yoga

Basic Hatha yoga positions; body awareness; relaxation; breathing exercises.

PED BC 1695x, y
Advanced Beginning Yoga

Breathing exercises, basic standing poses and inverted postures—plough, shoulderstand, headstand, handstand.
Completion of Beginning Yoga or permission of the instructor required.

PED BC 2799x, y
Independent Study

Enrollment in a course of instruction.
Not open to first year or transfer students. Approval of Department required. Limited to one semester of credit.

DANCE

See Dance Department (page 115) for course listings. Studio Dance Courses may be taken to fulfill the Physical Education requirement. Dance courses taken to fulfill the Physical Education requirement do not carry academic credit.

Courses offered are:

- Ballet: Beginning Low Intermediate, Intermediate, Advanced.
- Jazz: Low Intermediate, Intermediate.
- Modern: Beginning, Low Intermediate, Intermediate.
- Tap: Beginning, Intermediate.

Professor: Richard Friedberg (Chair)

Assistant Professors: Timothy Halpin-Healy, Robert Hart (Visiting PEW Lecturer), Laura Kay, Leslie Root
Other officers of the University offering courses listed below:

Professors: Norman Baker, Allan Blaer, Norman Christ, Wongyong Lee, Kevin Prendergast, Michael Shaevitz, Jacob Shaham, Ed Spiegel, Eric Weinberg

Associate Professors: James Applegate, Joseph Patterson, Jacqueline van Gorkom

Assistant Professors: Elena Aprile, Arlin Crotts, Christopher Martin, Velayudhan Nair, Peter Rowson

From Aristotle's *Physics* to Newton's *Principia*, the term "physics," taken literally from the Greek φυσικς = Nature, implied natural science in its very broadest sense. Physicists were, in essence, natural philosophers, seeking knowledge of the observable phenomenal world. Astronomy, a sibling science to physics, concentrated specifically on the study of natural phenomena in the heavens with the intent to understand the constitution, relative positions, and motions of the celestial bodies in our universe. Though practitioners of these disciplines have become somewhat more specialized in the past century, the spirit that guides them in their research remains the same as it was more than two millennia ago.

In cooperation with the faculty of the University, Barnard offers a thorough preprofessional curriculum in both physics and astronomy. The faculty represents a wide range of expertise, with special strength and distinction in theoretical physics, condensed matter physics, chemical physics, and observational astronomy.

Separate majors in physics and astronomy are offered. Furthermore, there are many special interdisciplinary majors possible, such as biophysics, chemical physics, engineering physics, and mathematical physics. There is a physics minor, as well. Students should consult members of the department early on in their undergraduate careers in order to plan the most effective course of study.

A major examination is required for both astronomy and physics; there is no senior essay required for either. Qualified seniors are invited to participate in the seniors honors program in which they carry out a year-long research project leading to the thesis.

The department offers several quite distinct introductory sequences in physics, only one of which may be taken for credit, including:

1. PHY V 1305-6, *Physics in Historical Perspective*, is a two-semester introduction to physics intended for liberal arts students. This course is taught on the Barnard campus and satisfies the Barnard Lab Science requirement. It does not fulfill the premedical requirement or the physics requirement for any major.
2. PHY V 1003-4, *General Physics*, is satisfactory preparation for medical school and is appropriate for most nonscience major premedical students. This course, devoted to algebra-based physics, is taught at Columbia in a large lecture hall setting. It is not recommended as a foundation for more advanced work in the field.
3. PHY BC 1206-8, *Physics I, II, III*, is Barnard's own three-semester, calculus-based introductory sequence in physics. Characterized by modest class sizes, the sequence is designed specifically for Barnard women with a serious interest in any of the natural sciences or mathematics. Such students might also consider taking PHY BC 1705x, *The Early Universe*, in the fall of their first year at Barnard. Note that PHY BC 1206y, *Physics I: Mechanics*, which is taught in the spring, followed in the fall by PHY BC 1207x, *Physics II: Electricity & Magnetism*, satisfies the physics requirement for students majoring in a science other than physics. It is especially appropriate for premedical students in the chemistry and biochemistry departments. Biology premedical students

with some calculus background should also be in this sequence. Finally, Barnard women contemplating a major in physics or astronomy should take PHY BC 1206y in the spring of their first year.

4. First-year students with exceptional aptitude for physics (as evidenced, for example, by scores of 4 or 5 on the advanced placement C exam) and a good mathematical background may be admitted into the Columbia-taught two-semester sequence, PHY C 1021-22, *General Physics*, which replaces all three terms of the Barnard sequence PHY BC 1206-8. Students inclined towards this sequence are strongly encouraged to consult a Barnard faculty member at the start of the term.

Students unsure about the most appropriate sequence should consult members of the department.

The following courses may be substituted for each other:

PHY BC 1206, and C 1406 with W 1906
 PHY BC 1207, and C 1407/1607 with W 1907
 AST V 1753-4 and C 1403-4

There is a laboratory fee of \$25 for each 1000-level physics course with a laboratory.

REQUIREMENTS FOR THE ASTRONOMY MAJOR

The courses required for the major in astronomy are:

PHY BC 1705	<i>The Early Universe</i>
PHY BC 1206	<i>Physics I: Mechanics</i>
PHY BC 1207	<i>Physics II: Electricity & Magnetism</i>
PHY BC 1208	<i>Physics III: Waves, Optics and Quantum Physics</i>

Students may substitute a Columbia College four-semester calculus-based introductory physics sequence with lab, as in the physics major.

Calculus through IIIS/IVA is required, with additional work in mathematics recommended. Also:

AST C 1203, 1204 *Introduction to Astrophysics I, II*

Students who have taken AST V 1753-4 (*Introduction to Astronomy I, II*) or

C 1403-4 may substitute an additional 3000-level AST course for AST C 1203-4.

Finally, students are required to take four 3000-level AST or PHY courses, including at least one of AST C 3102 or PHY W 3003 *Mechanics*, and selected so that at least six total points of 3000-level lecture classes are AST courses. Some of the AST courses offered in recent years include:

AST C 3101	<i>Stellar Structure and Evolution</i>
AST C 3102	<i>Planetary Dynamics and Physics of the Solar System</i>
AST C 3103	<i>Galaxies and the Interstellar Medium</i>
AST C 3104	<i>Cosmology</i>
AST C 3302	<i>General Relativity, Cosmology, and Black Holes</i>
AST C 3461	<i>Order and Disorder</i>
AST C 3646	<i>Observational Astronomy</i>

Students planning to study astronomy or astrophysics in graduate school are strongly urged to take PHY W 3003, 3007-8, 3021-22, some additional courses in mathematics and Computer Science W 1005 *Fortran Programming*.

PHYSICS AND ASTRONOMY

REQUIREMENTS FOR THE PHYSICS MAJOR

The courses required for the major in physics are:

PHY BC 1206y	<i>Physics I: Mechanics</i>
PHY BC 1207x	<i>Physics II: Electricity & Magnetism</i>
PHY BC 1208y	<i>Physics III: Waves, Optics and Quantum Physics</i>

In addition, students are strongly encouraged to take PHY BC 1705x *The Early Universe*. In lieu of the above, any four-semester Columbia College introductory sequence in calculus-based physics with laboratory will do (e.g., PHY C 1406-7 taken with PHY W 1906-7, followed by PHY C 1011-12). The accelerated two-semester Columbia College sequence PHY C 1021-22 is also acceptable.

Calculus through IIIS/IVA is required, with additional work in mathematics recommended. Ideally, this preliminary coursework would be completed by the end of the sophomore year.

At the upper level:

PHY W 3003	<i>Mechanics</i>
PHY W 3021	<i>Quantum Physics</i>
PHY W 3022	<i>Statistical Physics</i>
PHY W 3007	<i>Electricity and Magnetism</i>
PHY W 3008	<i>Electromagnetic Waves and Optics</i>

are required as are 4.5 points total of advanced lab work via PHY W 3082/W 3081. Finally, the student must take Computer Science W 1005 *Fortran Programming* or PHY W 3083 *Electronics Laboratory*.

Students planning to study physics in graduate school should try to include PHY G 4003 *Lagrangian Mechanics* and PHY G 4021 *Quantum Mechanics* in their senior year program.

INTERDISCIPLINARY MAJORS

Special majors in, for example, biophysics, chemical physics, engineering physics or mathematical physics, are all possible and are arranged in conjunction with the relevant second department at Barnard. Students interested in such possibilities should speak to a faculty member early on (i.e., by late fall of her sophomore year) in order to permit the most effective construction of her program of study and the appropriate petition to be made to the Committee on Programs and Academic Standing. The latter is a straightforward procedure associated with the declaration of all special majors at Barnard.

REQUIREMENTS FOR THE PHYSICS MINOR

Five courses are required for the minor in physics. They are: PHY BC 1705 *The Early Universe*, PHY BC 1206-8, which is Barnard's three-semester introductory calculus-based sequence in physics, and one 3-point course at the 3000 level. A second 3-point course at the 3000 level may be substituted for PHY BC 1705.

COURSES OF INSTRUCTION

ASTRONOMY COURSES

AST V 1753x

Introduction to Astronomy I

An introduction to astronomy, taught at Barnard, intended primarily for non-science majors. Includes the history of astronomy, the apparent motions of the moon, sun, stars, and

planets, gravitation and planetary orbits, the physics of the Earth and its atmosphere, and the exploration of the solar system. —L. Kay
Recommended preparation: a working knowledge of high school algebra. Suggested parallel laboratory course: AST C 1903x.
3 points. M W 1:10-2:25

AST V 1754y

Introduction to Astronomy II

The properties of stars, star formation, stellar evolution and nucleosynthesis, the Milky Way and other galaxies, and the cosmological origin and evolution of the universe. —L. Kay
Recommended preparation: a working knowledge of high school algebra. Suggested parallel laboratory course: AST C 1904y.
 3 points. M W 1:10-2:25

AST C 1903x

Earth, Moon, and Planets Laboratory

This laboratory is for the lecture courses AST V 1753x or AST C 1403x. The lecture course must be taken concurrently.
Corequisite: AST V 1753x or AST C 1403x.
 1 point, hours to be arranged.

AST C 1904y

Stars, Galaxies, and Cosmology Laboratory

This laboratory is for the lecture courses AST V 1754y or AST C 1404y. The lecture course must be taken concurrently.
Corequisite: AST V 1754y or AST C 1404y.
 1 point, hours to be arranged.

AST C 1203x

Introduction to Astrophysics I

The first term of a two-term calculus-based introduction to astronomy and astrophysics. Topics include the physics of stellar interiors, stellar atmospheres and spectral classifications, stellar energy generation and nucleosynthesis, supernovae, neutron stars, white dwarfs, interacting binary stars. —J. Patterson
Prerequisite: a working knowledge of calculus.
 3 points. Tu Th 2:40-3:55

AST C 1204y

Introduction to Astrophysics II

Continuation of AST C 1203x. Topics include the structure of our galaxy, the interstellar medium, star clusters, properties of external galaxies, clusters of galaxies, active galactic nuclei, cosmology. —N. Baker
 3 points. Tu Th 2:40-3:55

AST C 3101

Stellar Structure and Evolution

Topics include the physics of stellar structure, stellar atmospheres, nucleosynthesis, stellar evolution, interacting binary stars, white dwarfs, and neutron stars. —N. Baker
Prerequisite: a working knowledge of calculus and university-level introductory physics.
 3 points. M W 1:10-2:25

AST C 3102

Planetary Dynamics and Physics of the Solar System

Topics include orbital dynamics, planetary rings, planetary atmospheres, interiors of terrestrial and Jovian planets, comets, and the solar wind.
Prerequisite: a working knowledge of calculus and university-level introductory physics.
 3 points. Not offered in 1992-93.

AST C 3103y

Galaxies and the Interstellar Medium

Topics include gaseous nebulae, ionization zones, molecular clouds, dust, interstellar chemistry, supernova remnants, stellar populations, stellar kinematics, galactic rotation, 21 cm surveys, spiral structure, external galaxies, star formation, active galaxies. —K. Prendergast
Prerequisite: a working knowledge of calculus and university-level introductory physics.
 3 points. M W 1:10-2:25

AST C 3104y

Cosmology

Topics include the expansion of the universe, the extragalactic distance scale, Friedmann models, the microwave background, primordial nucleosynthesis, formation of galaxies, clusters and superclusters of galaxies, inflation, dark matter, the particle physics connection.
Prerequisite: a working knowledge of calculus and university-level introductory physics.
 3 points. Not offered in 1992-93.

AST C 3302x

General Relativity, Cosmology, and Black Holes

Special relativity and its role in physics. The Newtonian theory of gravity from Einstein's viewpoint. The equivalent principle. General relativity. Newtonian and relativistic cosmology. Black hole solutions. Thermodynamics of black holes. —E. Spiegel
Prerequisite: a working knowledge of calculus and elementary physics.
 3 points. Tu Th 1:10-2:25

AST W 3461x

Order and Disorder in Nature

Modern views of dynamics, catastrophe theory, chaos, strange attractors, solitons, cellular automata: with applications to astronomy and astrophysics, such as sunspot cycles, and to other branches of the natural sciences.
Prerequisite: Math V 1102 or the equivalent, or permission of the instructor.
 3 points. Not offered in 1992-93.

PHYSICS AND ASTRONOMY

AST C 3646x

Observational Astronomy

An introduction to the basic techniques used in obtaining and analyzing astronomical data. Most of the semester will be devoted to "ground-based" methods, at optical, infrared, and radio wavelengths. Regular use will be made of the telescope facilities atop the roof of Pupin Labs, and at the Harriman Observatory. The radio astronomy portion will consist mostly of computer labs. In research projects, students will also work on the analysis of data obtained at National Observatories.

Prerequisites: 3 points of previous course-work in astronomy or physics; by permission this can be a corequisite.

3 points. Not offered in 1992-93.

AST C 3997x and C 3998y

Seminar and Research Course

Topics in current research. —J. Applegate

1-3 points. Hours to be arranged.

For description of other astronomy courses see the Columbia College Bulletin.

PHYSICS COURSES

PHY V 1305x, 1306y

Physics in Historical Perspective

Introduction to classical and modern physics with some discussion of the historical development of physical theories. —x: L. Root —y: R. Hart
Oriented primarily to non-science students, who wish to gain a fairly rigorous understanding of physics. No previous background in physics is assumed, but a willingness to review and use elementary algebra is required. Laboratory 3 consecutive hours weekly, times to be arranged during first class.

4.5 points. Tu Th 1:10-2:25

PHY V 1405x

Physics in Historical Perspective

Course V 1305x, but without the laboratory.

3 points. Tu Th 1:10-2:25

PHY V 1003x, 1004y

General Physics

Mechanics, heat, electricity, magnetism, optics, and modern physics. —T. Bolton

No prerequisite. Non-calculus based approach.

4 points. Lecture M W 11:00-12:15

Laboratory 3 consecutive hours to be chosen from M Tu W Th F 1:10-4:00 or M Tu W Th 4:10-7:00.

Laboratory sections are arranged after the first class meeting.

PHY BC 1704x

Physics of Musical Sound

An introduction to the physics of the production, propagation, and perception of musical sound. Physical topics include driven oscillators, vibrational modes, waves, and Fourier analysis. These concepts will be used to gain an understanding of sound production in musical instruments (including the human voice), hearing and sound perception, room acoustics, and the digital synthesis and reproduction of sound. —R. Hart
Appropriate for both non-scientists with an interest in the subject and for potential majors in the sciences. No prior courses in physics will be assumed, nor will a background in musical theory or performance be required. Students must be willing and able to use algebra and trigonometry and be familiar with the graphical representation of functions.

Enrollment limited to 35.

3 points. Tu Th 10:35-11:50

PHY BC 1705x

The Early Universe

Big Bang cosmology, quantum phenomena, atomic spectral lines, Bohr model of hydrogen, galactic recession, expansion of the universe, curved spacetime, cosmic microwave radiation, primordial nucleosynthesis, grand unified theories, elementary particles, fate of the cosmos, special relativity, time dilation, twin paradox.—T. Halpin-Healy, L. Kay

This course is meant to expose students, particularly first-year Barnard students contemplating a possible major in the sciences, to the most exciting developments in 20th century physics. No knowledge of calculus is necessary, nor any previous study in physics, only a willingness to employ algebra, geometry and trigonometry to assist one's critical thinking about subtle scientific issues. Enrollment limited to 12.

3 points. Tu Th 1:10-2:25

PHY BC 1206y

Physics I: Mechanics

Fundamental laws of mechanics. Kinematics, Newton's Laws, work and energy, oscillations, gravitation, conservation laws, collisions, rotation. —T. Halpin-Healy

Corequisite: Calculus I or the equivalent.

4.5 points. Tu Th 10:35-11:50

Laboratory hours to be arranged.

PHY BC 1207x

Physics II: Electricity and Magnetism

Charge, electric field, and potential. Gauss' Law. Circuits: capacitors and resistors. Magnetism and electromagnetism. Induction and inductance.

Alternating currents. Maxwell's equations, waves. —T. Halpin-Healy
Prerequisite: Physics BC 1206y or the equivalent.
Corequisite: Calculus II.
 4.5 points. Tu Th 10:35-11:50
 Laboratory hours to be arranged.

PHY BC 1208y

Physics III: Waves, Optics and Quantum Physics

Mechanical and electromagnetic waves; geometric optics; interference and diffraction; wave/particle duality and quantum effects; atomic spectra; Schrodinger equation. —L. Root
Prerequisites: Physics BC 1207x or equivalent.
Corequisite: Calculus III.
 4.5 points. Tu Th 10:35-11:50
 Laboratory hours to be arranged.

PHY BC 1708y

Physics III: Waves, Optics and Quantum Physics

Lectures of BC 1208y, without the laboratory.
Prerequisite: Physics BC 1207x or equivalent.
Corequisite: Calculus III.
 3 points. Lecture Tu Th 10:35-11:50

PHY C 1021x, 1022y

General Physics

Mechanics, heat, electricity, magnetism, and light. —N. Christ
Prerequisite: Advanced placement in mathematics or some knowledge of differential and integral calculus and permission of the departmental representative. (A special placement meeting is held during Orientation Week.)
 4 points. Lecture Tu Th 10:35-11:50
 Laboratory 3 hours to be arranged at the first class meeting.

PHY W 3003x

Mechanics

Newtonian mechanics. Conservative forces and potential energy. Central forces. Planetary motion. Rutherford scattering. Free and forced oscillations. Relativistic mechanics. —M. Shaevitz
Prerequisites: General physics and integral calculus.
 3 points. M W 11:00-12:15

PHY W 3007y

Electricity and Magnetism

Electrostatics and magnetostatics. Laplace's equation and boundary-value problems. Multipole expansion. Dielectric and magnetic materials. Faraday's law. AC circuits. Maxwell's equations. Lorentz covariance and special relativity. —R. Friedberg

Prerequisites: C 1407 or the equivalent, and differential and integral calculus.
 3 points. M W 11:00-12:15

PHY W 3008x

Electromagnetic Waves and Optics

Maxwell's equations and electromagnetic potentials. The wave equation. Propagation of plane waves. Reflection and refraction. Geometrical optics. Transmission lines, wave guides, and resonant cavities. Radiation. Interference of waves. Diffraction. —W. Lee
Prerequisite: W 3007.
 3 points. M W 9:35-10:50

PHY W 3021x

Quantum Physics

Wave-particle duality and the Uncertainty Principle. Order-of-magnitude estimates in atomic physics. Basic principles of the quantum theory. Energy levels in one-dimensional potential wells. The harmonic oscillator, photons, and phonons. Reflection and transmission by one-dimensional potential barriers. Introduction to atomic and molecular physics. Electron spin resonance. Nuclear magnetic resonance. —J. Shaham
Prerequisite: C 1012 or C 1022 or the equivalent.
 3 points. Tu Th 9:00-10:15

PHY W 3022y

Thermal and Statistical Physics

Thermodynamics, kinetic theory, and statistical mechanics presented from a unified point of view. Classical and quantum statistics. The ideal gas. Black-body radiation. Liquid helium and superfluidity. Introduction to solid-state physics. Properties of metals, semiconductors, and insulators. Transistors. —P. Rowson
Prerequisite: W 3021x.
 3 points. Tu Th 9:00-10:15

PHY W 3081x, y

Intermediate Laboratory Work

The laboratory has available 12 individual experiments, of which two are required for 1.5 points. Each experiment is chosen by the student in consultation with the instructor. Registration in each section is limited by the laboratory capacity. Experiments (classical and modern) cover electricity, optics, and atomic and nuclear physics topics. —B. Knapp, M. May
 For junior and senior physics majors. Other majors require permission of the instructor. May be repeated for credit by performing different experiments.
 1.5 points. M or F 1:10-5:00

PHYSICS AND ASTRONOMY

PHY BC 3082x, y

Advanced Physics Laboratory

Barnard College physics laboratory has available a variety of individual experiments, of which two are required for 1.5 points. Each experiment is chosen by the student in consultation with the instructor, requires substantial preparation, and is followed up by written and oral presentations.

Registration is limited by laboratory capacity.

Experiments investigate Poisson Statistics, beta decay, driver oscillators, as well as high-temperature superconductivity. Numerical (i.e., computer) experiments in statistical physics and chaos are also possible, using the department's minicomputer facility. —T. Halpin-Healy

Intended primarily for junior and senior physics/astro majors and may be repeated for credit by performing different experiments. Enrollment limited to 6.

1.5 points. Laboratory hours to be arranged.

PHY W 3083x, y

Electronics Laboratory

Experiments in solid state electronics, with introductory lectures. —C. Martin

Permission of the instructor required.

Corequisite: W 3003 or W 3007. Registration is limited to the capacity of the laboratory.

2 points. M W 1:00-4:00

PHY V 3500x, y

Supervised Readings in Physics

Readings in a selected field of physics under the supervision of a faculty member. Written reports and periodic conferences with the instructor.

—Staff

Prerequisite: written permission of the faculty member who agrees to act as supervisor and the permission of the departmental representative.

3 points.

PHY V 3900x, y

Supervised Individual Research

For specially selected students, the opportunity to do a research problem in contemporary physics under the supervision of a faculty member. Each year several juniors are chosen in the spring to carry out such a project beginning in the autumn term. A detailed report on the research is presented by the student when the project is complete. —Staff

Permission of the department representative required.

1 to 5 points a term.

PHY G 4003y

Lagrangian Mechanics

Lagrange's formulation of mechanics. The calculus of variations and the action principle. Hamilton's formulation of mechanics. Applications to rigid body motion and normal modes. —J. Shaham

Prerequisite: W 3003.

3 points. M W 9:35-10:50

PHY G 4021x

Quantum Mechanics

The formulation of quantum mechanics in terms of state vectors and linear operators. Three-dimensional spherically-symmetric potentials. The theory of angular momentum and spin. Identical particles and the exclusion principle.

Methods of approximation. Multi-electron atoms. —P. Kaaret

Prerequisites: W 3003, W 3007, W 3021.

3 points. Tu Th 10:35-11:50

For a description of other courses see the Columbia College Bulletin.

PHY F 1003x, 1004y

General Physics

4 points. Lecture Tu Th 7:40-8:55. Lab to be announced.

PHY W 1003y, 1004x

General Physics

4 points. Lecture M W 2:40-3:55. Lab to be announced.

PHY C 1406x, 1407y

General Physics I, II

3 points.

PHY W 1906x, 1907y

Physics Laboratory

1 point.

PHY C 1011x, 1012y

General Physics III, IV

3.5 points.

Professors: Demetrios Caraley (Janet H. Robb Professor and Chair), Dennis Dalton (Ann Whitney Olin Professor), Peter Juviler, Richard M. Pious

Associate Professor: Ester Fuchs

Assistant Professors: Michael Delli Carpini (Departmental Representative), Judith Russell (Departmental Representative), Naomi Weinberger

Instructors: Martin Malin, Sanya Popovic, Andrew Wiese (Visiting)

Lecturers: Leslie Calman, Flora Davidson

Adjunct Associate Professors: Jewel Bellush, Rosalind Fink

Other officers of the University offering courses listed below:

Professors: David A. Baldwin, Thomas P. Bernstein, Richard Betts, Seweryn Bialer, Douglas Chalmers², Gerald L. Curtis³, Lewis J. Edinger, Julian H. Franklin, Raymond Geuss, Charles V. Hamilton, Robert Jervis, Mark Kesselman, Robert Legvold², Andrew Nathan, Joseph Rothschild, Warner R. Schilling³, Jack Snyder, Alan F. Westin³

Associate Professors: Lisa Anderson, Jean Cohen, David Johnston, Helen Milner, Alexander Motyl, Barnett Rubin, Robert Shapiro

Assistant Professors: David Epstein, Gregory Gause, Edward Mansfield¹, Anthony Marx¹, Sunita Parikh¹, David Spiro

¹Absent on leave Autumn Term

²Absent on leave Spring Term

³Absent on leave 1992-93

The purpose of the study of political science is to develop understanding of the basic political institutions and processes in human society. This understanding involves analysis and evaluation of political systems and public policies in the context of the challenges they face and the changes they undergo. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as public or party official, civil servant, lawyer, or political commentator, or to undertake graduate training in political science in preparation for a career in college teaching. Students interested in public service careers should inquire about the five-year joint degree program with the Columbia Graduate Program in Public Policy and Administration of the School of International and Public Affairs.

REQUIREMENTS FOR THE MAJOR

A student majoring in Political Science is required to take a minimum of nine semester courses from the department's listed offerings, including:

- A. Political Science BC 3001 *Dynamics of American Politics*
- B. One of the following courses:
 - Political Science V 3505 *Comparative Politics*
 - Political Science V 3601 *International Politics*
 - Political Science BC 3013, BC 3014 *Political Theory*
- C. Two colloquia or other courses having a research paper among those courses designated by an asterisk (*); and
- D. Two semesters of research seminar for the thesis (see below).

In order to have the opportunity for independent specialized work in depth, and to explore more fully the techniques of scholarly investigation, both majors and concentrators

POLITICAL SCIENCE

are required to write a senior essay as part of the work for the required two-semester research seminar (either Political Science BC 3761-BC 3762, *Research Seminar*, or V 3711-V 3712, *Research Seminar in American Politics*).

The department's requirements are flexibly drawn to permit a major, in consultation with her adviser, to plan an overall program that, while providing some background in various areas of government and politics, can place special emphasis on such particular interests as the American political system (including its urban subsystem), foreign political systems, international relations, or political theory.

Departmental approval must be granted for transfer courses used toward the major. Only three transfer courses may be counted.

A student majoring in Urban Affairs with a concentration in Political Science is required to take a minimum of six semester courses, including:

Political Science BC 3001	<i>Dynamics of American Politics</i>
Political Science V 3313	<i>American Urban Politics</i>

Two from the following courses:

Political Science BC 3322	<i>The American Congress</i>
Political Science BC 3326	<i>Colloquium on Civil Rights and Liberties</i>
Political Science BC 3327	<i>Colloquium on the Content of American Politics</i>
Political Science BC 3535	<i>Colloquium-Workshop in Urban Administration and Management</i>
Political Science V 3306	<i>Political Economy of Cities</i>
Political Science G 8202	<i>Colloquium on Congress and Policymaking</i>

Two semesters of research seminar for the thesis.

REQUIREMENTS FOR THE MINOR

A student minoring in Political Science is required to take a minimum of five semester courses, including Political Science BC 3001.

COURSES OF INSTRUCTION

GENERAL COURSES

Courses listed under this heading may be taken without previous study of political science.

POS BC 3001x, y
Dynamics of American Politics

Examination of the dynamics of the American political system at the national level including political participation elections, political parties and national political institutions: the Presidency, the Congress and the Judiciary. —Staff
Sign-up sheets for sections are posted outside 408 Lehman. Credit is not granted for both this course and C 3305.

3 points.

- x: Sec. 1 M W 11:00-12:15 —R. Pious
- Sec. 2 M W 2:40-3:55 —J. Russell
- Sec. 3 Tu Th 10:35-11:50 —Instructor to be announced.

y: Sec. 1 M W 11:00-12:15 —R. Pious

POS BC 3007x
Modern Political Movements

Causes, structures and strategies of 20th-century political movements with particular reference to issues of imperialism, nationalism, race and gender. Case studies of Indian nationalism, Nazism, Bolshevism, civil rights and women's movement. —L. Calman

3 points. Tu Th 10:35-11:50

S

POS BC 3013x, 3014y
Political Theory I, II

Major texts of political theory from Plato to the present. Emphasis on comparison of basic concepts such as those of human nature and the ideal society, freedom and authority, equality and leadership, methods of creating change. —D. Dalton
Note: 3013 is a prerequisite for 3014. No credit is given for BC 3014 unless BC 3013 has been satisfactorily completed.

3 points. Tu Th 9:10-10:25

S

POS V 3313y

American Urban Politics

Patterns of government and politics in America's large cities and suburbs. Urban socio-economic environment, influence of party leaders, local officials, social and economic notables, racial, ethnic and other interest groups, press, the general public, and federal and state governments; impact of urban government on ghetto and other urban problems. —J. Russell

3 points. M W 2:40-3:55

S

POS V 3505y

Introduction to Comparative Politics

An introduction to major issues and theories in comparative politics and democratization.

—P. Juviler

3 points. Tu Th 10:35-11:50

S

POS V 3601x, y

International Politics

Setting and dynamics of global politics; application of theories of international relations to selected historical and contemporary problems.

3 points.

x: Sec. 1 Tu Th 1:10-2:25 —N. Weinberger

Sec. 2 Tu Th 6:00-7:15 —H. Spruyt

y: M W 11:00-12:15 —R. Jervis

S

POS BC 3345y

Statistical Analysis of Politics and Policy

Use of the microcomputer, including Lotus spreadsheets, in analysis of problems in the political process and public policy; practical applications in statistical analysis. —E. Fuchs

Satisfies Quantitative Reasoning requirement.

Recommended prerequisite: BC 3001 or W 3305.

4 points. Tu Th 10:35-11:50

Lab: F 11:00-1:00

AMERICAN GOVERNMENT

AND POLITICS

Lecture Courses

POS W 3245y

Race and Ethnicity in American Politics

The historical and contemporary roles of various racial and ethnic groups; initiation demands, leadership and organizational styles, and orientation, benefits, and impact on the structure and outputs of governance in the United States. —S. Parikh

3 points. Tu Th 1:10-2:25

POS BC 3322y

The American Congress

Dynamics, organization, and policymaking processes of the American Congress.

Relationship of legislators to constituents, lobbyists, bureaucrats, the President, and one another.

—M. Delli Carpini

Prerequisite: BC 3001 or the equivalent.

3 points. M W 2:40-3:55

S

POS BC 3325x

The Judicial Process

Introduction to the American judicial system; origins and strategies of litigation, factors which influence the hearing of cases by the Supreme Court, and controversies over judicial review and the commerce clause.

Prerequisite: BC 3001 or a course in American history. Not open to students who have taken W 3399.

3 points. Not offered in 1992-93.

S

POS W 3470y

Women in Politics

Analysis of changes and continuities in the roles of women as they have been involved in and affected by American politics and public policy.

—J. Cohen

3 points. M W 2:40-3:55

POS BC 3335x

Mass Media and American Democracy

An examination of the structure of the mass media in the United States and their impact on the political and social beliefs, opinions, and behaviors of both the mass public and political elites. Particular attention will be paid to the tension that forms between the potential for an informed citizenry and the potential for a manipulated public. —M. Delli Carpini

Prerequisite: BC 3001 or the equivalent.

3 points. Tu Th 2:40-3:55

S

POS BC 3336x, y

Workshop in Mass Media and Politics

Students intern at mass media organizations in New York City (newspapers, magazines, television, radio, etc.) while doing readings in media and politics. Reading lists are tailored to specific internships. Students meet every other week with instructor to discuss readings and connect them to internship experiences. Research paper required. —M. Delli Carpini

Junior or senior status: prearrange internship through Office of Career Services. Prerequisite or corequisite: POS BC 3335 or the equivalent.

Permission of the instructor required.

2 points. Hours to be arranged.

POS W 3399x

The Supreme Court and American Politics

The role of the Supreme Court and the judicial process in American government. The use of litigation as an instrument of politics. Issues of property, liberty, equality, and due process as treated by the courts. —M. Zebrowski

Prerequisite: sophomore standing.

3 points. W 6:10-8:40

POS W 3400y

Law and Politics of Civil Liberties

The current law on the civil liberties and civil rights of citizens; and emerging issues of individual rights at the workplace, particularly in corporate employment. —A. F. Westin

Prerequisite: Open only to juniors and seniors who have had a course in American government or constitutional law.

3 points. M W 11:00-12:15

POS W 4311x

American Parties and Elections

The changing role of political parties and elections in the American political system. The historical development of party conflict; the structure of party organization at the local and national levels; the roles of party and the media during presidential elections; who votes and why; and the future of American political parties. —E. Fuchs

3 points. M W 11:00-12:15

POS W 4316x

The American Presidency

Growth of presidential power, creation and use of the institutionalized presidency, presidential-congressional and presidential-bureaucratic relationships, and the presidency and the national security apparatus.—R. Pious

Prerequisite: BC 3001 or the equivalent.

3 points. M W 1:10-2:25

Colloquia

***POS BC 3326y**

Colloquium on Civil Rights and Liberties

The uses and limitations of the judicial process to protect individual rights and affect public policy. Readings, discussion, and reports on selected topics including libel and the press, criminal procedure, equal protection, and ethics in government. —R. Fink

Prerequisite: BC 3001 or equivalent and permission of instructor.

4 points. W 4:10-6:00

***POS BC 3327x**

Colloquium on Content of American Politics

Readings, discussions and reports on changing cleavages and policy issues in American national politics since the 1960s.

Prerequisite: BC 3001 or equivalent and permission of the instructor.

4 points. Not offered in 1992-93.

***POS BC 3331y**

Colloquium on American Political Decisionmaking

Readings on decisionmaking, policy analysis and the political setting of the administrative process. Students will simulate an Ad Hoc Cabinet Committee assigned to prepare a presidential program to deal with aspects of the foreign aid program involving hunger and malnutrition. —R. Pious

4 points. M 2:10-4:00

***POS BC 3333x**

Colloquium on Policy Analysis

Theoretical aspects and practical applications of policy analysis. Topics include the policymaking process, and the roles and tools of policy analysis. Actual case studies will be used. Students will also simulate case studies for analytical purposes. —J. Russell

Prerequisite: BC 3001 or equivalent and permission of the instructor.

Enrollment limited to 18 students.

4 points. Tu 10:00-12:00

Urban Affairs UAF BC 3535x

Colloquium on Urban Administration and Management

Processes of administration and management in urban organizations. Executive leadership, decision-making, bureaucracy, budgeting and personnel.

—J. Bellush

Prerequisite: BC 3001 or V3313 or the equivalent.

Enrollment limited to 20 students.

4 points. M 2:10-4:00

Urban Affairs UAF 3537x

Workshop in Urban Administration and Management

Resources of New York City utilized to gain first-hand experience of administrative and managerial processes through unpaid internships of 8-10 hours per week. —J. Bellush

Corequisite: Urban Affairs BC 3535.

2 points. Biweekly meeting to be arranged.

POS G 8232

***Colloquium on Urban Politics, Policymaking, and Administration**

Politics, policymaking, and administration in large cities. Particular attention is given to the urban social and economic environment; fiscal federalism and other aspects of the federal government's role in urban affairs; the resources, strategies, and tactics of selected officials and private influentials; and alternative futures of large cities. —D. Caraley

Prerequisite: BC 3001 or V 3313 and permission of the instructor.

3 points. Th 2:10-4:00

S

COMPARATIVE POLITICS AND FOREIGN GOVERNMENT

Lecture Courses

POS W 3018y

Authoritarianism and Democracy

Analysis of why some countries have democratic regimes, and others authoritarian ones, and of patterns and causes of transition from one regime type to the other.

3 points. Not offered in 1992-93.

POS BC 3422y

Social Democracy in Western Europe

An examination of Western European politics with particular attention to social democratic movements. Among issues to be examined will be the place of Social Democratic parties in the West European party systems, their relations to Liberal and Communist parties as well as to trade unions, and the public policies these parties pursue when in power.

Prerequisite: V3505 or the equivalent.

3 points. Not offered in 1992-93.

POS W 3531y

The Politics of East Central Europe

A comparative study of the politics of the countries of East Central Europe with emphasis on contemporary changes.

3 points. Not offered in 1992-93.

POS W 3502x

Political Change in the Third World

Politics of development in the poorer countries of the world, with a particular emphasis on Africa and Latin America. Topics include colonialism and dependency, theories of economic and political modernization, the nation and the state, racial/ethnic and class relations, reform, and revolution. —P.K. Ohdenburg

3 points. Tu Th 6:10-7:25

POS G 4420x

Politics in Advanced Capitalist Society: West Europe and the US

Alternate approaches (including Marxist, post-Marxist, and corporatist) to understanding the political economy of advanced capitalism in West Europe and the United States. The relationship of liberal democracy and capitalist production.

Historical and cross-national variations in ruling coalitions, state policies, and political conflicts.

The crisis of the Keynesian welfare state and post-Keynesian developments. —M. Kesselman

3 points. Not offered in 1992-93.

POS W 4445y

Politics in the Middle East and North Africa

Comparative analysis of regime types, political development and political decay, nation state building and the role of political groups in the Middle East and North Africa. —L. Anderson

3 points. Tu Th 10:35-11:50

POS W 4461y

Latin American Politics

Political structures, conflict, and change in the region, including discussion of the politics in selected countries, patterns of regime change and the involvement of the United States. —D. Chalmers

3 points. M 4:10-6:00

POS W 4471x

Chinese Politics

Analysis of the Chinese political system, including institutions, political conflict, state-society relations, and policy implementation, with focus on the Maoist revolutionary era and reformist political processes since 1978. —T. Bernstein

3 points. Tu 4:10-6:00, Th 5:10-6:00

POS G 4472x

Japanese Politics

A survey of contemporary Japanese politics, focusing on political leadership, party organization and behavior interest group structures, patterns of national-local linkage, and clientelism. Emphasis on relating the Japanese experience to the general literature on these themes.

—Instructor to be announced.

3 points. Hours to be arranged.

One hour discussion sections to be arranged.

POS G 4487y

The Dynamics of Soviet Politics

The role of Marxism-Leninism in Soviet politics; the role of the Communist party in Soviet government and society; problems of industrialization; stages of development and political change;

the balance of political forces and pressure in the Soviet state. —A. Motyl
3 points. Tu 9:00-10:50

POS G 4496y

Contemporary African Politics

Topics include the transition from colonialism to independence, ethnic and class relations, the state, strategies for development, international influences, and case studies of selected countries. —Instructor to be announced

Prerequisite: Junior or senior standing and permission of the instructor.

3 points. M W 11:00-12:15

POS W 4842y

Conflicts and Conflict Resolution in the Middle East

Comparative analysis of conflicts and efforts at conflict resolution in the Middle East, focusing on inter-Arab politics, the Iran-Iraq war, and the Arab-Israel conflict. Sources of conflict between states, the dynamics of intervention in civil strife, and the role of extraregional actors will be examined. —N. Weinberger

Prerequisite: V 3505 or V 3601 or permission of the instructor.

3 points. Tu Th 1:10-2:25

Colloquia

***POS BC 3055y**

Colloquium on Political Violence and Terrorism

Contemporary political violence and terrorism in comparative perspective. Distinctions between guerrilla war and terrorism, and (dis)continuities between historical and evolving forms of political violence. Case studies include the Middle East, South Africa, Northern Ireland, and Peru; narcoterrorism. —S. Popovic

4 points. M 2:10-4:00

***POS BC 3220x**

Colloquium on Communism and Revolutionary Change

Nature, causes and consequences of revolution; approaches to revolution of the major types of workers' and peasants' revolutionism. —S. Popovic
Prerequisites: V 3505, BC 3007, or BC 3221, or the equivalent and permission of the instructor required.

4 points. M 2:10-4:00

***POS BC 3221x**

Colloquium on Politics and Human Rights in the Former USSR

Soviet conception of governing authority and human rights; the interaction of government and

citizens. —P. Juviler

Prerequisite: V 3505 or BC 3007, or Soviet politics or history. Admission by application only.

4 points. Tu 2:10-4:00

POS BC 3414y

Colloquium on Women and Third World Politics

An exploration of how women and political structures influence one another in Asia, Latin America, the Middle East, and Africa. How do different political systems and political cultures influence women's status and power? What are influences on women's level and mode of participation? What benefits do or do not accrue to them from participation? —L. Calman

Prerequisite: POS BC 3505, BC 3007 or W3502.

4 points. Th 2:10-4:00

***POS BC 3424x**

Colloquium on Asian Politics

Comparative analysis of national experiences and political ideas and political development in India and China. —L. Calman

Prerequisite: V3505 or permission of the instructor.

Enrollment limited to 20 students.

4 points. Not offered in 1992-93.

INTERNATIONAL RELATIONS AND FOREIGN POLICY

Lecture Courses

POS BC 3012y

The United Nations in International Politics

3 points. Not offered in 1992-93.

POS W 3614x

The Causes of War

An introduction to some leading theories of international war. —E. Mansfield

Prerequisite: POS V 3601 or the instructor's permission.

3 points. M W 6:10-7:25

POS W 3630x

The Politics of International Economic Relations

Introduction to the political and historical dimensions of the international economy. Political aspects of trade, monetary systems, foreign investment, aid, dependency, global interdependence. —Instructor to be announced.
3 points. Hours to be arranged.

POS W 4804y

The Making of American Foreign Policy

Constitutional, organizational, and partisan dynamics of the foreign policy process, with special attention to legislative-executive and civil-

military relations, intelligence, activities, and performance in crises. —R. Betts
Prerequisite: POS V 3601 or permission of the instructor.
 3 points. M W 11:00-12:15

Colloquia

***POS BC 3118y**

Colloquium on Problems in International Politics

Readings, discussions, and presentations on selected problems in international politics. Topic for 1992-93: Israeli and Palestinian nationalism; conflict and mediation. —N. Weingberger
Prerequisite: Course V 3601 and permission of the instructor.

4 points. W 2:10-4:00

S

***POS BC 3410y**

Colloquium on Human Rights in a Diverse World

Exploration of the nature of human rights and questions of their validity and relevance, protection and redefinition, in this world of cultural diversity and diversity of national interests.—P. Juviler
Open to juniors and seniors of Barnard and Columbia by application. November-December 1991, through Barnard Political Science office, Lehman Hall.

4 points. Th 2:10-4:00

S

POLITICAL THEORY

Lecture Courses

POS W 3411x

Foundations of Western Political Thought: From the Greek Polis to the Formation of the Modern State

Leading political theorists in their historical contexts. The idea of the normally autonomous political community in Plato and Aristotle; the relationship of the Church or a spiritual community and the secular powers of the state in Christian political thought; the rise of modern notions of republicanism, constitutionalism, and the right of resistance in the Renaissance and the Reformation. Among the authors considered are Plato, Aristotle, Polybius, Cicero, St. Augustine, St. Thomas, Machiavelli, Luther, Calvin, The Monarchomachs, and Bodin. —J. Franklin

3 points. Tu Th 10:35-11:50

POS W 3412y

Modern Political Thought

Constitutional theory and the changing conceptions of politics in the republican and natural law traditions. Particular attention is paid to the ris-

ing theorization of civil society and to the place of political economy in the political thought of the 18th and early 19th centuries. Political philosophy from Hobbes to Mill. —R. Amdur
 3 points. Tu Th 2:40-3:55

POS W 4640y

The Ethics and Politics of Freedom: Rousseau to Marx

—R. Geuss

3 points. M W F 10:00-10:50

Colloquia

***POS BC 3416y**

Colloquium on Personality and Politics

Readings, discussion, and research on the role of personality in shaping political behavior, with special attention to the impact of personality in political leaders. —F. Davidson
Permission of the instructor required.

Enrollment limited to 16 students.

4 points. Th 4:10-6:00

S

***POS BC 3423x**

Colloquium on Nonviolence

Nature and dynamics of nonviolent action especially when directed at gaining political and social change. Focus on Mahatma Gandhi's theory and practice of nonviolence in South Africa and India, 1906-1947. Comparison of this example with other instances of nonviolent action in 20th century America and Europe. —D. Dalton
Prerequisites: BC 3013x, BC 3013y, and BC 3007x.

4 points. Not offered in 1992-93.

S

***POS BC 3433y**

Colloquium on Concepts of Democratic Political Theory

Reading the great books of political theory from Plato to the Federalist Papers to examine concepts such as power, elitism, democracy, tyranny, liberty, justice, the right to revolt, and force vs. morality. Throughout the course, these concepts will be related to the founding and operation of the American constitutional democracy. —D. Caraley
Permission of the instructor required

4 points. W 2:10-4:00

S

***POS BC 3440x**

Colloquium on Women in Western Political Thought

This course will examine the treatment of women in major traditions of Western political thought. Questions of women's "nature," their role in public life and in the private sphere will be explored. Primary sources will include Plato, Aristotle, Rousseau, Locke, Marx, and Engels. —L. Calman

Permission of the instructor required.
4 points. Not offered in 1992-93.

S

***POS W 3833x**
Colloquium on Political Ideas

A study of the relationship between social theory and literature. Selected topics in contemporary political philosophy. —R. Amdur
Prerequisite: BC 3013, BC 3014 or equivalent, and permission of the instructor.
4 points. M 4:10-6:00

COURSES IN
QUANTITATIVE METHODS

POS W 4910x
Principles of Quantitative Political Research

Introduction to the use of quantitative techniques in political science and public policy. Topics include descriptive statistics and principles of statistical inference and probability through analysis of variance and ordinary least-squares regression. Computer applications are emphasized.

3 points.

x: Sec. 1 Tu Th 10:35-11:50 —R. Shapiro

Sec. 2 Tu Th 4:10-5:25 —R. Shapiro

y: Tu Th 4:10-5:25 —D. Epstein

POS G 4911y
Analysis of Political Data

Multivariate and time-series analysis of political data. Topics include time-series regression, structural equation models, factor analysis, and other special topics. Computer applications are emphasized. —R. Shapiro

3 points. Tu Th 10:35-11:50

RESEARCH SEMINARS

Admission to particular sections of the research seminar is limited. During Spring preregistration students must apply for the section desired.

POS V 3711x-3712y
Research Seminar in American Politics

Discussions, conferences, and the writing of a senior essay on a topic, selected by each student, of American public policy and politics. —Staff
4 points.

x: Sec. 1 Tu 4:10-6:00 —D. Caraley

Sec. 2 Th 4:10-6:00 —M. Delli Carpini

Sec. 3 W 4:10-6:00 —E. Fuchs

y: Sec. 1 Tu 4:10-6:00 —D. Caraley

Sec. 2 Th 4:10-6:00 —M. Delli Carpini

Sec. 3 W 4:10-6:00 —E. Fuchs

POS BC 3761x-3762y
Research Seminar

Discussion and conferences on the researching and writing of the senior essay. — Staff
4 points.

Sec. 1 Th 4:10-6:00 —P. Juviler

Sec. 2 Tu 4:10-6:00 —D. Dalton

Sec. 3 W 4:10-6:00 —M. Malin

Sec. 4 W 4:10-6:00 —N. Weinberger

Sec. 5 Tu 4:10-6:00 —S. Popovic

POS V 3701x-3702y
Research Seminar in American Politics

4 points.

x: Sec. 1 M 2:10-4:00 —C. Hamilton

Sec. 2 Tu 2:10-4:00 —C. Long

Sec. 3 Th 2:10-4:00 —C. Cameron

y: Sec. 1 M 2:10-4:00 —C. Hamilton

Sec. 2 Tu 2:10-4:00 —A. Gondek

Sec. 3 W 4:10-6:00 —D. Epstein

Political Science-Sociology PSS V 3994x-3995y
New York Area

Undergraduate Research Program

An ongoing program that develops a social research project from conceptualization to final report. Using New York City as a research laboratory, students choose different topics each year for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists. —J. Russell
Prerequisite: Junior or senior standing. Enrollment limited to 10-15 students, selected by application only. Participation is for two terms. Does not satisfy seminar requirement for POS majors.

4 points. Tu 2:10-4:00

BARNARD SUMMER IN
WASHINGTON PROGRAM

This is a ten-week summer program combining internships with Barnard classes in Washington, D.C. Students will work four days a week on Capitol Hill, in government agencies, at policy research institutes, national media organizations, and other organizations which influence public policy. On Fridays, students will meet for classes and for special events, such as question and answer sessions with policymakers. The internships are integrated with the following two courses. Students may take one course or both.

Political Science SB 3346

The Making of National Public Policy

An exploration of the causes and consequences of public policies. This course will provide an overview of the policy process for students whose internships will expose them in depth to one particular aspect of this process. The course is divided into substantive units which present either broad theoretical perspectives on policy development or the details of particular policy areas, with an emphasis on social policy. Class time will be devoted to group discussion of assigned readings and contemporary events.

— M. Goldstein

3 points. Friday mornings.

Political Science SB 3347

Summer Research in American Politics

This course provides a framework for the development and writing of a major research paper. It deals with both theoretical problems of data collection and analysis, and specific problems students may encounter in doing research. The course has three formal meetings devoted to discussion of assigned readings and each individual student's research topic, methods, and progress. Individual conferences with the instructor will be held throughout the semester. The course requirement is completion of a twenty to forty page research paper on a policy area generally related to the internship. —M. Goldstein

Prerequisite: An introductory or advanced course in American politics (may be waived with permission of the instructor).

4 points. Friday afternoons.

Summer 1993

Students may pick up application for the program and a brochure describing the program and courses in the Department in the Autumn semester.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the bulletins of the Graduate School of Arts and Sciences, the Graduate Program in Public Affairs and Administration, and School of International Affairs.

**COURSES OFFERED AT
REID HALL IN PARIS**

The following courses are offered at Reid Hall in Paris. For additional information, see the Reid Hall Programs bulletin available in 412 Lewisohn Hall.

Political Science H 3250y

French Foreign Policy since World War II

The Fourth and Fifth Republics. Focus on a number of French preoccupations in the sphere of international relations, evolution of certain French attitudes and concerns, and contemporary French foreign policy. Topics include Vichy, the Communist Party, Jena Monney, the Indo-Chinese war, the Algerian War, de Gaulle's foreign policy, the French and Europe, de Gaulle and the Third World, Pompidou, Franco-American relations, d'Estaing, the political defense of France, and foreign relations in Socialist France. —Instructor to be announced.

3 points.

History-Political Science H 3240x, y

The State and Political Life in France from the Revolution to the Present

The continuity and discontinuity of French political life during the past two hundred years. Factors that assure the permanence of French political life are often hidden from view because of frequent dramatic breaks and changes in political regimes. Through analysis of moments of turmoil and change, the underlying element of permanence is traced. Key dates indispensable to the study of contemporary France are discussed. —D. Hemery

3 points.

Professors: Peter Balsam, Lila Ghent Braine, Thomas Perera (Visiting), Robert Remez, Rae Silver (Helene L. and Mark N. Kaplan Professor)

Associate Professors: Lawrence Aber, Barbara S. Schmitter, Christina L. Williams (Chair)

Adjunct Associate Professors: Wendy McKenna, Corliss Parker, Carolyn A. Ristau

Assistant Professors: Larry B. Heuer, Gail Musen, Steven Stroessner, John Vitkus

Adjunct Assistant Professors: Howard Andrews, Maria Crisafi, Wendy McKenna, Sandra F. Stingle

Adjunct Instructors: Johan Julin, Johanna Nordlie

Psychology is the study of behavior and experience, and therefore of a diversity of phenomena, from love to aggression, from the first babbling of infants to creative intellectual behavior, from sexual behavior to the mechanisms of taste. Faculty members in Psychology have a wide range of research interests, including social and cognitive development memory, sexual and parental behavior, animal learning, interpersonal behavior, the self-concept, and the resolution of conflict.

Common to all areas of psychology is a concern with adequate and appropriate method. The student will encounter many points of psychological evidence and technique through lecture, laboratory, field courses, and other offerings.

Opportunities are available for supervised research, teaching, and field experience. Independent study and the Senior Seminar involve participation in research with a faculty member. The Toddler Center and a course in Field Work in Psychological Services also provide first-hand contact with the study of psychology.

The department sponsors a Psychology Club.

Psychology as a major is good preparation for many careers. Many majors enter graduate school in psychology, neurosciences, education and professional schools, including medical, law, and business schools. There is no set sequence for a major with a given career goal, but the department recommends a balance between courses that are directly preparatory and those which establish a broad intellectual foundation.

Science requirement: Students desiring to fulfill the science requirement through psychology are encouraged to take their lab courses in their early years at Barnard, because seniors do not receive priority in lab placements. To ensure exposure to different methods in psychology, the two lab courses will be drawn from different groups in psychology. See the description of lab groups under *Requirements for the Major*.

Students should preregister for courses in April and November for the following semester. Preregistration information is available in Room 415 Milbank.

A laboratory fee of \$20 is charged for each laboratory course: BC 1105, BC 1108, BC 1117, BC 1123, BC 1127, BC 1130, BC 1136, and BC 1156.

Students interested in Biopsychology should consult page 95.

REQUIREMENTS FOR THE MAJOR

The student majoring in Psychology is exposed to the diversity of the discipline through the required core courses and the selection of appropriate electives.

Eight courses in psychology (of which two must be lab courses) and three courses in related disciplines are required for the major. Six of the eight required psychology courses must be taken at Barnard College. Statistics cannot be taken during the summer. Students who have passed the Advanced Placement exam with a score of 4 or 5 are exempt from BC 1001, and receive 3 points of AP credit.

Students must take:

Psychology BC 1001	<i>Introduction to Psychology</i> (prerequisite for further psychology courses)
Psychology BC 1101	<i>Statistics</i> (preferably in the sophomore year)

Students must take one course from each group, of which two must be laboratory courses:

Group A

Psychology BC 1105 or 1107	<i>Psychology of Learning</i>
Psychology BC 1130 or 1132	<i>Human Learning and Memory</i>

Group B

Psychology BC 1108 or 1110	<i>Perception</i>
Psychology BC 1117 or 1119	<i>Physiological Psychology</i>

Group C

Psychology BC 1123 or 1125	<i>Psychology of Personality</i>
Psychology BC 1136 or 1138	<i>Social Psychology</i>
Psychology BC 1127 or 1129	<i>Developmental Psychology</i>
Psychology BC 1156 or 1158	<i>Psychological Measurement</i>

Three additional elective courses are required. Students may take more than one course in each group.

A maximum of two of the following courses may count toward the major: BC 3465, BC 3466, BC 3591, BC 3592, and BC 3599.

The three required courses in related disciplines should be distributed in this manner: two courses in a science, each accompanied by a three-hour laboratory section (astronomy, biology, chemistry, environmental science, geology, or physics); and, one course from the cognate disciplines (anthropology, computer science, economics, linguistics, philosophy or sociology).

The eight required psychology courses must be taken for a letter grade; the grade must be C- or better.

The major examination consists of either the Graduate Record Examination in Psychology or satisfactory completion of Psychology BC 3591-BC 3592, *Senior Research Seminar*.

These revised requirements for the major are in effect for the class of '95 and following years. Other classes should consult the Barnard Catalogue 1991-92 for a description of the prior requirements. When in doubt the student should consult with her major adviser, whom she should select when she decides to major in psychology. The student may select the appropriate adviser in consultation with the administrative assistant or the chair.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor, including Psychology BC 1001, BC 1101 and one laboratory course. Two additional electives, excluding Psychology BC 3465-BC 3466, BC 3591-BC 3592, and BC 3599, are required. These electives may be selected from the Psychology Department course offerings. Three of the five psychology courses must be taken at Barnard.

COURSES OF INSTRUCTION

INTRODUCTORY COURSE

PSY BC 1001x,y

Introduction to Psychology

Introduction to the chief facts, principles, and problems of human and animal behavior, through systematic study of a text, lectures, exercises, reading in special fields, and brief participation in a current investigation. (An alternative to participation can be arranged at the student's request.) —Staff

This course is prerequisite for all other Psychology courses. Enrollment is limited to 45 students per section. 3 points.

x: Sec: 1 M W 11:00-12:15 —W. McKenna

Sec: 2 M W 6:10-7:25 —J. Nordlie

Sec: 3 Tu Th 2:40-3:55 —J. Vitkus

Sec: 4 Tu Th 10:35-11:50 —L. Heuer

Sec: 5 Tu Th 1:10-2:25 —T. Perera

y: Sec: 1 M W 1:10-2:25 —J. Nordlie

Sec: 2 M W 2:40-3:55 —W. McKenna

Sec: 3 Tu Th 10:35-11:50 —R. Remez

Sec: 4 Tu Th 1:10-2:25 —C. Ristau

Sec: 5 Tu Th 2:40-3:55 —J. Nordlie

PSY BC 1099x, y

Science and Scientists

Weekly meetings with researchers to discuss the nature of scientific inquiry in psychology; and intellectual professional and personal issues in the work of scientists. —R. Silver and guests
Enrollment limited to first and second year students.
Prerequisite: BC 1001 or permission of the instructor.
1 point. Tu 4:10-6:00

CORE COURSES

PSY BC 1101x,y

Statistics

Introduction to statistics and its applications to psychological research. Basic theory, conceptual underpinnings, and common statistics. Recitation devoted to discussion of weekly problem assignments.
Prerequisite: BC 1001 or permission of the instructors. Enrollment limited to 35 students per section.
Preregistration.

4 points.

x: Sec: 1 Tu Th 4:10-5:25 —H. Andrews

Recitation W 4:00-6:00

Sec: 2 M W 2:40-3:55 —Instructor to be announced.

Recitation Tu 9:00-11:00, 11:00-1:00

y: Sec: 1: Tu Th 2:40-3:55 —P. Balsam

Recitation W 9:00-11:00, 11:00-1:00

Sec: 2: M W 1:00-12:15 —S. Stroessner

Recitation Tu 9:00-11:00, 11:00-1:00

PSY BC 1105x

Psychology of Learning

Basic methods, results and theory in experimental analysis of behavior. Operant and classical conditioning, and application of these procedures to analysis of behavior in a variety of species, including humans. Laboratory consists primarily of experiments using rats as subjects. —P. Balsam and assistants.

Prerequisite: BC 1001. Enrollment limited to 60 students. Preregistration.

4.5 points. Lecture Tu Th 10:35-11:50

Laboratory W Th F 1:00-4:00

Laboratory fee \$20.

PSY BC 1107x

Psychology of Learning

Same as BC 1105, but without the laboratory. —P. Balsam

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 15 students.

3 points. Tu Th 10:35-11:50

PSY BC 1108x

Perception

Introduction to problems, methods, and research in perception. Discussion of psychological studies of seeing, hearing, touching, tasting, and smelling. In the laboratory, students conduct experiments and learn to report their findings. —R. Remez and assistants
Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 40 students.
Preregistration.

4.5 points. Lecture M W 11:00-12:15

Laboratory M or Tu 2:00-5:00

Laboratory fee \$20.

PSY BC 1110x

Perception

Same as BC 1108, but without the laboratory. —R. Remez

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 15 students.

3 points. M W 11:00-12:15

PSY BC 1117y

Physiological Psychology

An introduction to the physiological bases of behavior: organization, connections and functions of the nervous system; neural bases of sensory processing, motor control, feeding, drinking, sexual behavior, sleep, aggression, reward, learning and memory. —C. Williams and assistants

Prerequisite: BC 1001. Enrollment limited to 40 students. Preregistration.

4.5 points. Lecture Tu Th 10:35-11:50

Laboratory W 2:30-5:30 or Th 1:00-4:00

Laboratory fee \$20

PSY BC 1119y

Physiological Psychology

Same as BC 1117y, but without laboratory.

—C. Williams

Prerequisite: BC 1001. Enrollment limited to 20 students.

3 points. Tu Th 10:35-11:50

PSY BC 1123y

Psychology of Personality

Surveys the principal approaches to personality and their implications for personality development, psychological adjustment, and everyday behavior. In laboratory students will participate in all stages of personality research: conceptualizing a personality construct, designing and administering tests, identifying individual differences, and carrying out a study. —J. Vitkus

Prerequisite: BC 1001. Enrollment limited to 40 students.

4.5 points. Lecture: Tu Th 1:10-2:25

Laboratory: M or Th 9:00-12:00. Fee \$20.

PSY BC 1125y

Psychology of Personality

Same as PSY BC 1123y but without laboratory.

—J. Vitkus

Prerequisite: BC 1001 or permission of the instructor.

3 points. Tu Th 1:10-2:25

PSY BC 1127x,y

Developmental Psychology

Cognitive, linguistic, perceptual, motor, social, affective, and personality development from infancy to adolescence. Laboratory offers an opportunity for direct contact with children; major areas of research at each level of development are covered. —x: L. Braine and assistants y: —M. Crisafi and assistants

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 44 students.

Preregistration.

4.5 points. Lecture M W 1:10-2:25

Laboratory Tu 2:30-5:30, W 9:00-12:00

Laboratory fee \$20.

PSY BC 1129x,y

Developmental Psychology

Same as BC 1127, but without laboratory.

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 20 students.

x —L. Braine, y —M. Crisafi

3 points. M W 1:10-2:25

PSY BC 1130y

Human Learning and Memory

Survey of contemporary theories of human memory with an emphasis on a comparison between structural and process models. Topics will include primary memory, secondary memory, levels of processing, organization and encoding specificity. Special topics will include eyewitness testimony, metamemory, development of memory, and the effects of alcohol and other drugs on memory.

The laboratory consists of experiments related to these topics. —G. Musen and assistants

Prerequisite: BC 1001. Enrollment limited to 40 students. Preregistration.

4.5 points. Lecture M W 11:00-12:15

Laboratory M or Tu 2:00-5:00

Laboratory fee \$20.

PSY BC 1132y

Human Learning and Memory

Same as BC 1130 but without laboratory.

—G. Musen

Prerequisite: BC 1001.

3 points. M W 11:00-12:15

PSY BC 1136y

Social Psychology

Human behavior considered in terms of interpersonal activities; person perception, attitude change, interpersonal attraction aggression, altruism, group dynamics, social exchange; contributions of laboratory and field research.

—L. Heuer and assistants

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 50 students. Preregistration.

4.5 points. Lecture Tu Th 9:10-10:25

Laboratory W or Th 1:00-4:00

Laboratory fee \$20.

PSY BC 1138y

Social Psychology

Same as BC 1136, but without laboratory.

—L. Heuer

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 25 students.

3 points. Tu Th 9:10-10:25

PSY BC 1156x

Psychological Measurement

Introduction to test theory, including test construction, standardization, reliability, validity, and item analysis. Other topics include: use of psychological tests in assessing intelligence, abilities, aptitudes, and personality; application of psychological tests in educational, clinical and industrial settings, legal issues in the use of psychological testing. —J. Julin

PSYCHOLOGY

Prerequisite: BC 1001. *Preregistration.*
4.5 points. Lecture M W 11:00-12:15
Laboratory Th 9:00-12:00
Laboratory fee \$20.

PSY BC 1158x **Psychological Measurement**

Same as BC 1156x but without the laboratory.
—J. Julin

Prerequisite: BC 1001. *Enrollment limited to 20 students.*
3 points. M W 11:00-12:15

MIDDLE LEVEL COURSES

PSY BC 2134x **Educational Psychology**

Through a participative classroom model the major theories and issues in human psychological development and learning fundamental to the educative process are examined. The course will analyze the implications and applications of psychological knowledge for classroom teaching. Students observe in elementary and secondary school classes. —S. Sacks

Prerequisite: BC 1001 or permission of the instructor.
3 points. Tu Th 2:40-3:55

PSY BC 2141x,y **Abnormal Psychology**

Introduction to the study of deviant and maladaptive behaviors such as childhood disorders, depression, schizophrenia, eating disorders, and mental retardation, focusing on scientific, philosophical and socio-cultural issues in the study of abnormal behavior and the relationship between diagnosis and treatment strategy. —x: J. Vitkus, —y: L. Aber
Prerequisite: BC 1001 or permission of the instructor.
3 points. Tu Th 10:35-11:50

PSY BC 2151x **Organizational Psychology**

Introduction to behavior of individuals and small groups in work organizations. Recent theory and research emphasizing both content and research methodology. Motivation and performance, attitudes and job satisfaction, power, influence and authority, leadership, cooperation and conflict, decision-making, and communications. —S. Stroessner

Prerequisite: BC 1001. *Enrollment limited to 45 students.*
3 points. Not offered in 1992-93.

PSY BC 2154x **Hormones and Reproductive Behavior**

Biological basis of parental and sexual behavior from a comparative perspective. Complex relations among genetic, hormonal, environmental

and experiential factors in mediating sexual, parental, emotional, and feeding behavior. Aspects of biology and physiology necessary to understand those behavioral processes are covered in class and are not prerequisites. —R. Silver
Prerequisite: BC 1001 or Biology BC 1101-BC 1102.
Enrollment limited to 45 students.
3 points. Tu Th 9:10-10:25

PSY BC 2158x **Human Motivation**

Empirical study of human motivation with emphasis on motives in fantasy, action and society. Surveys different approaches to the study of human motives and their scientific status.

Discusses the development of motives in childhood, their behavioral and societal manifestations. Particular emphasis is given to need for achievement, need for power, need for affiliation, fear of failure, fear of success. —Staff

Prerequisite: BC 1001. *Alternate years.*
3 points. Not offered in 1992-93.

PSY BC 2160x **Cognitive Psychology**

Selected topics illustrating the methods, findings, and theories of contemporary cognitive psychology. Topics include attention, pattern recognition, imagery, categorization, problem solving, reasoning and language. —G. Musen
Prerequisite: BC 1001. *Enrollment limited to 20 students. Alternate years.*

3 points. Not offered in 1992-93.

PSY BC 2370y **Psychological Analysis of Racism**

Psychological factors influencing the development and expression of racist attitudes and actions, with special references to black-white relations. Psychodynamic studies of hostility, anger, self-concept, mechanisms of defense, and other factors that produce and reduce racism. Each student will write an original research paper. —Staff

Prerequisite: BC 1001 and permission of the instructor. *Enrollment limited to 20 students. Alternate years.*
4 points. Not offered in 1992-93.

PSY BC 2371x **Psychology and Women**

Selected topics relevant to the scientific understanding of women's behavior and experience; sex differences in personality and abilities; development of sex differences; biological, psychodynamic and social learning theories; psychological aspects of special female experiences (e.g. menstruation,

childbirth, abortion); women and therapy; women at work; and the science of psychology as it affects women. —Staff

Prerequisite: BC 1001. *Enrollment limited to 20 students.* 4 points. *Not offered in 1992-93.*

UPPER LEVEL COURSES

PSY BC 3152y

Psychological Aspects of Human Sexuality

A survey and critical evaluation of research investigating psychological, biological and social factors in human sexual behavior. Topics will include sexuality throughout the life span, sexual dysfunction and cultural attitudes towards sexuality. —W. McKenna

Prerequisite: BC 1001 and two other psychology courses or permission of the instructor. *Enrollment limited to 30 students. Preference given to seniors.* *Preregistration.*

3 points. M W 1:10-2:25

PSY BC 3161y

Introduction to the Psychotherapeutic Process

Exploration of concepts intrinsic to the psychotherapeutic process: transference, counter-transference, resistance, interpretation, defense analysis. Focus of assessment choice or treatment psychoanalysis/psychotherapy, major treatment modalities (e.g., behavioral, humanistic, interpersonal), the analytic attitude, and therapeutic change. —C. Parker

Prerequisites: BC 1001, and any two of the following courses: *Personality, Abnormal Psychology, Developmental Psychology, Human Motivation* or permission of the instructor.

3 points. Tu Th 10:35-11:50

PSY BC 3164y

Perception and Language

Psychological investigations of spoken communication from listener's perspective. Topics include perception of the sounds of speech and the apprehension of meaning from words and utterances; the perceptual basis for rhyme and rhythm in speech; and the natural history of vocal communication. —R. Remez

Prerequisites: BC 1001 and one of the following: BC 1105, BC 1108, BC 1117, BC 1127, BC 1130 or equivalent. *Enrollment limited to 20 students.* *Alternate years.*

3 points. *Not offered in 1992-93.*

PSY BC 3166x

Social Conflict

This seminar will survey the literature on the development of social conflict, the functions of

social conflict, the motivations and cognitions of individuals in conflict, and the procedures available for resolving conflict. Particular emphasis will be placed on the psychology of fairness and its implications for conflict resolution. —L. Heuer
Prerequisite: BC 1001 and one additional psychology course, or permission of the instructor. *Enrollment limited to 20 students.*

4 points. Th 4:10-6:00

PSY BC 3167y

History and Systems of Psychology

Development of the discipline of psychology examined in the context of significant events occurring in other fields (philosophy, other sciences) and in society. Major schools of psychology: Structuralism, Functionalism, Behaviorism, Gestalt Psychology and Psychoanalytic Theory. —L. Braine

Open to juniors and seniors who have had BC 1001 and two other courses in psychology, or permission of the instructor. Alternate years.

3 points. M W 2:40-3:55

PSY BC 3169y

Developmental Psychobiology

A discussion of the inherent and acquired factors in the organization of basic behavioral processes: mechanisms underlying anatomical and functional development of the nervous system, prenatal and postnatal environmental influences on behavior, development of perception and response mechanisms, and analyses of the development of motivated behavior (e.g., feeding, sex, learning). —C. Williams

Prerequisites: BC 1001 and one other course in biology or psychology. *Alternate years.*

3 points. *Not offered in 1992-93.*

PSY BC 3372y

Topics in Developmental Psychology

Recent work selected from a broad range of areas: infant behavior, perceptual and cognitive development, family structures, and socialization practices. —L. Braine

Prerequisites: BC 1001 and two other psychology courses. *Enrollment limited to 20 students.*

4 points. *Not offered in 1992-93.*

PSY BC 3374y

Theories of Learning

Comparative study of major accounts of learning processes, including behavioral, cognitive, and biological theories. Evaluation of qualitative and quantitative models and their logical and empirical validity. —P. Balsam

PSYCHOLOGY

Prerequisite: BC 1105 and junior or senior standing.
Enrollment limited to 15 students. Alternate years.
4 points. Not offered in 1992-93.

PSY BC 3375y

Organization of Movement

Selected topics pertaining to the control of action: information for determining movement; planning an act; motor systems; stabilities; locomotion; skill; hierarchies of control; perceptual influences on planning and execution of acts. —R. Remez

Prerequisites: BC 1001 and one of the following: 1105, 1108, 1117, 1127, 1130, or 1136. *Enrollment limited to 20 students.*

4 points. Not offered in 1992-93.

PSY BC 3376y

Infant Development

Analysis of human development during the first year of life. Perceptual, cognitive, sensory-motor, and social development will be examined, with emphasis on critical conditions involved in early learning and attachment. Other topics include pre-natal development, "high-risk" infants, exploration and play, and language development —Staff

Prerequisites: BC 1001 and BC 1127 or BC 1129.

Enrollment limited to 20 students.

4 points. Not offered in 1992-93.

PSY BC 3378x

Females and Males:

A Psychobiological Perspective

Research in psychology and biology has shown that there are sex differences in brain and behavior of man and other animals. The developmental, neurological, hormonal, genetic, experiential and evolutionary bases of sex differences in reproductive behavior and cognitive function, and the implications of these differences will be critically examined. —C. Williams

Prerequisites: BC 1001 and two other psychology courses. *Alternate years.*

4 points. Th 2:10-4:00

PSY BC 3379x

Psychology of Stereotyping and Prejudice

Research in psychology and biology has shown that there are sex differences in brain and behavior of man and other animals. The developmental, neurological, hormonal, genetic, experiential and evolutionary bases of sex differences in reproductive behavior and cognitive function, and the implications of these differences will be critically examined. —S. Stroesser

Prerequisites: BC 1001 or permission of the instructor. *Enrollment limited to 20 students.*

4 points. W 2:10-4:00

PSY BC 3380x

Fundamental of Neuropsychology

Exposition of research and theory in cognitive neuroscience through discussion of neuropsychological syndromes, including: aphasia, amnesia, dyslexia, Alzheimer's disease, prosopagnosia, and cognitive components of Parkinson's disease, William's syndrome. —G. Musen

Prerequisites: BC 1001 or permission of the instructor. *Enrollment limited to 20 students.*

4 points. M 2:10-4:00

PSY W 4107y

Applications of Experimental Psychology

Actual and potential applications of basic research in many areas of psychology.

Traditional approaches to clinical situations; alternative experimental approaches to therapy, institutional design, and social planning; clinical assessment, behavior modification, self-control, creativity, law, education, and the ethics of social control. —P. Balsam

Prerequisite: Learning course and permission of the instructor. *Enrollment limited to 15 students.*

Offered every three years.

3 points. Not offered in 1992-93.

PSY W 4132y

Production and Perception of Language

Review of theories and current research on the processes of speech perception. Topics include the acoustic theory of phonetic differentiation, peripheral transduction, auditory and phonetic analysis, word recognition, phrase formation, and the effects of context in perception and production. Special topics include language perception and production in the deaf, perception of metaphor, and automatic speech recognition. —R. Remez

Prerequisites: Psychology W 1501, W 3180, BC 3164 or permission of the instructor.

4 points. Tu 6:10-8:00

RESEARCH AND FIELD WORK COURSES

PSY BC 3465x, 3466y

Field Work and Research Seminar: Barnard Toddler Center

The Barnard Toddler Center provides the focus for field work and research in applied developmental psychology, an amalgam of developmental, educational, and clinical psychology. Students assist one morning a week at the Center, make individual class presentations, carry out team research projects and participate in a 2-hour weekly seminar which integrates the-

ory, research, and practice. —L. Aber
Prerequisite: BC 1127 and permission of the instructor. Permission should be requested in the spring of the year preceding registration. Enrollment limited to 12 students.
 4 points. Tu 12:30-2:30

PSY BC 3473y
Field Work Seminar in Psychological Services and Counseling
 Supervised field work (minimum of 7 hours per week) applying psychological principles to work and treatment in clinical, educational, medical, and other institutional settings. Seminar discussions of theoretical approaches to clinical problems and case materials. —S. Stingle
Prerequisites: 3 psychology courses and permission of the instructor required during program planning the previous fall. Enrollment limited to 12 students; seniors given priority.
 4 points. Tu 10:00-12:00 plus supervision to be arranged.

PSY BC 3591x, 3592y
Senior Research Seminar
 Discussion and conferences on a research project culminate in a senior thesis. Each project must be supervised by a member of the department. Successful completion of the seminar substitutes for the major examination. —L. Braine
Open to eight senior psychology majors who submit a research proposal which has been approved by the course instructor and the project supervisor.
Prerequisites: BC 1101, a minimum of five other psychology courses must be completed, and permission of the instructor.
 4 points. Tu 4:10-6:00

PSY BC 3599x, 3599
Individual Projects
 Research projects planned in consultation with members of the department. —Staff
Open to majors on written permission of the department member who will supervise the project.
 3 or 4 points. Hours to be arranged.

QUANTITATIVE REASONING

2 Lehman Hall

854-3790

This program is supervised by the Quantitative Reasoning Committee.

Professor of Economics: Duncan Foley (Director)

Associate Professor of Mathematics: David Bayer

Instruction in the Quantitative Reasoning Program is provided by regular members of the Barnard and Columbia College Faculty.

QUANTITATIVE REASONING REQUIREMENT

All entering students must take the Basic Math Skills test during orientation week. Students who fail the test must complete QUR BC 1001, *Basic Math Skills*, during their first year at Barnard and before satisfying the QR requirement with one of the courses listed on page 33.

All students must pass one course in which the major topics are mathematics, methods of empirical analysis using quantitative data, or symbolic manipulation to solve problems. The requirement may be fulfilled by passing a Quantitative Reasoning course (described below), or one of the courses listed on page 33.

COURSES OF INSTRUCTION

Quantitative Reasoning courses introduce students to mathematical concepts through the analysis of quantitative topics in other disciplines. QUR BC 1110 is made up of two six-week units. Each unit is taught by a different professor whose area of interest lies in a discipline within the humanities, the social sciences, or the natural sciences and mathematics. Students must complete both units in the same semester to receive credit for the course; both units contribute equally to the grade for the course.

Students are introduced to the use of computers in all QR courses. Instructors assume that students have had no prior experience using computers.

QUR BC 1001x, y **Basic Math Skills**

Required as noted above. Open to other students only with permission of the instructor. A student who wishes to select the P/D/F grading option or drop this course must do so by the fifth week of the section in which she is enrolled.

—E. Finkelstein

1 point.

x: Sec. 1 Tu Th 9:10-10:25, Sept. 10 - Oct. 27

Sec. 2 Tu Th 4:10-5:25, Oct. 15-Dec. 3

y: Sec. 1 Tu Th 9:10-10:25, Jan. 26 - Mar. 11

Sec. 2 Tu Th 4:10-5:25, Mar. 2 - Apr. 22

QUR BC 1100y

Introduction to Quantitative Reasoning

An interdisciplinary introduction to quantitative theory of deductive and inductive logic.

Elementary probability theory, including joint and conditional probability and Bayes' Theorem.

Applications to the problem of the use of evidence in making decisions. Examples from medicine, law, history, politics, economics, games psychology.

—D. Foley

3 points. M W F 9:00-9:50

QUR BC 1110x, y

Words, Codes, and Cryptograms

This course introduces the mathematics of the computer age by using computers to manipulate textual information. The first unit develops specific programming examples necessary to analyze textual input and output. The second unit focuses on basic concepts and techniques of cryptography, enabling students to design, implement, and analyze secret communications systems. —J. Follansbee, J. Lad

3 points. x: Tu Th 2:40-3:55

y: M W 2:40-3:55

Professors: John Stratton Hawley (Chair), Alan Segal²

Associate Professor: Randall Balmer

Assistant Professors: Judith Weisenfeld, Angela Zito¹

Visiting Assistant Professor: Celia Deutsch

Instructor: Catherine Cooper, Barbara Gombach

Other officers of the University offering courses listed below:

Professors: Peter Awn, Gillian Lindt¹, Wayne L. Proudfoot, Robert Somerville¹, Robert A.F. Thurman, David Weiss-Halivni³

Assistant Professors: Ryuichi Abe, Marc Hirshman (Visiting), Matthew Kapstein³, Gurinder Singh Mann

Visiting Associate Professor: David Shatz

¹Absent on leave Autumn term.

²Absent on leave Spring term.

³Absent on leave 1992-93.

Approaches to the study of religion are as diverse as the world's religious traditions themselves, perhaps because the religious experience we seek to understand is inseparable from the rich diversity of human life and culture. The student of religion encounters men and women as they explore the very boundaries of their perceptions of the real. It is the challenge provoked by this encounter that makes our common involvement in the academic study of religion so fascinating, even as it leads us to scrutinize and question the boundaries of our own world view.

The inquiry into religious theory, practice, and institutional life demands a variety of methodological tools in addition to an integrating framework. The program in religion sponsored by Barnard College and Columbia College offers a unique context for this interdisciplinary study through the superb resources it commands. The areas of expertise of the religion faculty (philosophy of religion, sociology and anthropology of religion, the history of specific religious traditions, comparative religion) provide the prospective student with a clear picture of the range of specialization available.

Moreover, the larger University community provides training in a broad spectrum of disciplines related to the study of religion: the social sciences, humanities, arts, and the professions. Specialized area studies programs and institutes—Middle East, Southern Asian, etc.—explore in depth the linguistic, literary, and sociocultural milieux of particular Eastern or Western religious traditions. Barnard and Columbia offer intensive training in the languages of the major religious traditions of the world: Arabic, Chinese, Greek, Hebrew, Japanese, Latin, Persian, Sanskrit, Tibetan, and so forth. Students are encouraged to take full advantage of these and other opportunities available throughout the University.

The Department cooperates with related programs such as Ancient Studies, Asian and Middle Eastern Studies, Jewish Studies, and with other departments, to arrange combined, double, joint and special majors. These arrangements are made in consultation with the chair.

The Jewish Theological Seminary of America and Union Theological Seminary are located within two blocks of Barnard; students are encouraged to use the resources they offer.

All courses, except those limited to majors, satisfy the College's distribution requirements in the Humanities.

REQUIREMENTS FOR THE MAJOR

Program of study: To be planned with the departmental representative, taking into account the educational aims of the student.

RELIGION

Courses: For the major, 10 courses are required. Students must include among the 10 courses V 1040—*Introduction to Theory and Methods in the Study of Religion* and at least one of the introductory courses (V 1001—*Major Topics in the Study of Religion*; V 1101—*Introduction to the Study of Western Religion*; or V 1102—*Introduction to the Study of Eastern Religion*), and two courses in the traditions (six points). At the levels of the introductory and traditions courses, students are expected to gain exposure to both Eastern and Western religions. The majors' colloquium, to be taken in the senior year, and a seminar are also required, as is V 3901-V 3902, *Guided Reading and Research*. Courses in which a grade of D has been received may not be used to satisfy requirements for the major.

It is strongly recommended that majors, especially those considering graduate work in religion, pursue the study of the language of one religious tradition (e.g., Arabic, Chinese, Greek, Hebrew, Latin, Sanskrit) in addition to fulfilling the College language requirement.

Senior essay: Majors are required to prepare a senior essay or project in consultation with a member of the department. The essay is written in connection with V 3901-V 3902—*Guided Reading and Research*. It is evaluated by two members of the faculty, one of whom may be outside the Columbia/Barnard Religion Departments. The department takes the senior essay into consideration when making recommendations to the Faculty Committee on Honors.

REQUIREMENTS FOR THE MINOR

The minor consists of five courses, including:

- One of the introductory courses (i.e., V 1001, V 1040, V 1101, V 1102);
- Two courses selected from the traditions; and
- One course taken as a seminar, colloquium, or guided reading.

In unusual cases, substitutions for required courses may be allowed at the discretion of the department chair.

COURSES OF INSTRUCTION

For courses offered by other departments and the Graduate School of Arts and Sciences that bear upon the study of religion, students are urged to consult the appropriate bulletin. Some graduate courses are open to qualified undergraduates with the permission of the instructor.

INTRODUCTORY COURSES

REL V 1001x
Major Topics in the Study of Religion
Introduction to theory and practice of religion, East and West: e.g., myth and ritual, reason and revelation, law and community, mysticism and religious organization. —J. Weisenfeld, G. Mann
3 points. M W 10:35-11:50 H

REL V 1040x
Theories and Methods in the Study of Religion
An introduction to the problems and methods of the study of religion, focusing on classical theorists such as Levy-Bruhl, Durkheim, Freud, Jung, Lévi-Strauss, Evans-Pritchard, Malinowski, and Eliade. —W. Proudfoot
3 points. Tu Th 10:35-11:50 H

REL V 1101y
Introduction to the Study of Western Religion
The phenomenology of religious experience and the historical forms of religious life. The presuppositions, data, and documents of the religions of the West. —C. Deutsch
3 points. Tu Th 2:40-3:55 H

REL V 1102x, y
Introduction to the Study of Eastern Religion
The phenomenology of religious experience and the historical forms of religious life. The presuppositions, data, and documents of the religions of the East.
3 points.
x: M W 1:10-2:25 —R. Abe
y: Tu Th 2:40-3:55 —J. Hawley, A. Zito H

THE TRADITIONS

REL V 2600x**Hinduism**

Central themes in Hinduism, in their relation to Indian culture. Readings include original sources in translation. Visual material emphasized.

—J. Hawley

3 points. Tu Th 2:40-3:55

H

REL V 2603y**Taoism**

Historical introduction to Chinese Taoism; development of thought and literature (i.e., the Tao Te Ching and the Chuang Tzu); meditation and alchemy; translations of doctrine into folk belief and ritual; examination of contemporary study and practice. —A. Zito

3 points. Tu Th 10:35-11:50

H

REL V 2607x**Buddhism: Indo-Tibetan**

A historical introduction to Buddhist thought, scriptures, practices and institutions. Attention given to Theravada, Mahayana and Tantric Buddhism in India and Tibet. —R. Thurman

3 points. Tu Th 4:10-5:25

H

REL V 2608y**Buddhism: East Asian**

An introductory survey that studies East Asian Buddhism as an integral, living religious tradition. Emphasis is placed on the reading of original treatises in translation. Historical events are discussed in terms of their relevance to contemporary problems confronted by Buddhism. —R. Abe

3 points. M W 1:10-2:25

H

REL V 2610x**Christianity**

Survey of the history of Christianity and of the social and ethical tensions which have informed its development. —C. Cooper

3 points. M W 4:10-5:25

H

REL V 2620x**Judaism**

Historical overview of Jewish belief and practice as these have crystallized and changed over the centuries. Special attention to ritual and worship, forms of religious literature, central concepts, religious leadership and institutions, and Israel among nations. —M. Hirshman

3 points. Tu Th 4:10-5:25

H

Islamic-Religion ISR V 2630y**Islam**

Survey of Islamic institutions, ideas, and spirituality, their origin and development in formative and classical periods and their continued evolution in a variety of cultural settings. —P. Awn

3 points. M W 4:10-5:25

H

INTERMEDIATE COURSES

EASTERN RELIGIONS

REL V 3000y**Buddhist Ethics**

An investigation of the main textual sources of the Buddhist ethical tradition, with attention to their historical operation within the Buddhist societies, taking the Indian Buddhist movement as foundation for the Buddhist impact on the rest of Asia. —R. Thurman

3 points. Tu Th 2:10-4:00

H

REL V 3605y**Sikhism**

Focusing on the religious beliefs, literature, and history of the Sikhs, the course will trace the development of Sikhism from its inception as a part of a large devotional (bhakti) movement to its modern manifestation as a powerful religious minority in contemporary India. —G. Mann

3 points. M W 2:40-3:55

H

REL V 3613x**Japanese Religious Tradition**

A study of the development of the Japanese religious tradition in the pre-modern period.

Attention given to the thought and practices of Shinto, Buddhism, and Confucianism, the interaction among these religions in Japanese history, and the first Japanese encounter with Christianity.

—R. Abe

3 points. Tu Th 1:10-2:25

H

REL V 3640x**Chinese Religious Traditions**

3 points. Not offered in 1992-93.

H

WESTERN RELIGIONS

Judaism**REL V 3201x****Introduction to the Hebrew Bible**

Introduction to the literature of ancient Israel against the background of the ancient Near East.

—A. Segal

3 points. M W 11:00-12:15

H

RELIGION

REL V 3210y
Judaism During the Time of Jesus
An introduction to the Hellenistic period of Jewish history with emphasis on sectarian movements and the emergence of rabbinic Judaism and Christianity as the two dominant religious movements of the West. —C. Deutsch
3 points. Tu Th 4:10-5:25

H

REL V 3214y
Introduction to Talmudic and Geonic Literature
3 points. Not offered in 1992-93.

H

REL V 3310x
Peshat and Drash in the Jewish Tradition
3 points. Not offered in 1992-93.

H

REL V 3330x
The Beginnings of Jewish Mysticism
A study of biblical and Hellenistic foundations for Western mysticism—scriptural visions of God, apocalyptic literature, Graeco-Roman magic, and the merkabah mystical movement in Judaism. —A. Segal
3 points. Tu Th 1:10-2:25

H

REL V 3315y
Law and Lore (Halakha and Aggadah) in the Jewish Tradition
3 points. Not offered in 1992-93.

H

REL V 3338x
Jewish Ethics
A critical examination of both philosophical questions concerning the nature and basis of Jewish ethics and normative questions concerning the saving and taking of human life. Jewish materials will be compared with parallel discussions by contemporary ethicists. —D. Shatz
3 points. Tu Th 2:40-3:55

H

REL V 3349y
Jewish Family Law
3 points. Not offered in 1992-93.

H

REL 3355x
Development of the Jewish Holidays
3 points. Not offered in 1992-93.

H

REL V 3360x
Jewish Liturgy
3 points. Not offered in 1992-93.

H

Christianity
REL V 3202y
Introduction to the New Testament
Critical study of the formation of the New

Testament canon, and the communities which produced it. —C. Cooper
3 points. M W 4:10-5:25

H

REL V 3240y
Graeco-Roman Religion
3 points. Not offered in 1992-93.

H

REL V 3402y
Early Christianity
3 points. Not offered in 1992-93.

H

REL V 3412y
Gnosticism
3 points. Not offered in 1992-93.

H

REL V 3530y
The History of the Papacy
A survey of the history of the Papacy from its origins to the 16th century Reformation. —R. Somerville
3 points. M W 4:10-5:25

H

Islam
ISR V3635x
History of Sufism
3 points. Not offered in 1992-93.

H

ISR W 4300x
Islam in India
3 points. Not offered in 1992-93.

H

RELIGION, CULTURE AND SOCIETY

REL V 3755x
African-American Religion
Survey of the history of religion among Americans of African descent from slavery to the present. Major topics to be covered include: the African background and the transmission of African cultures, religion under slavery, independent black churches, religion and race relations and modern theological movements. —J. Weisenfeld
3 points. Tu Th 1:10-2:25

H

REL V 3370
Women in Sacred Texts: Hebrew Bible and the New Testament
3 points. Not offered in 1992-93.

H

REL V 3501y
18th and 19th Century Religious Thought
Relation between religion and culture; theories of religious development (personal, social, cultural). Hume, Edwards, Lessing, Rousseau, Kant, Hegel, Schleiermacher, Coleridge, Bushnell, Emerson, and others. —W. Proudfoot
3 points. Tu Th 1:10-2:25

H

REL V 3502x, 3503y**The History of Religion in America**

A survey of American religion from colonization to the present, with an emphasis on the ways religion has shaped American history, culture, and identity. V 3502x: from colonization to the Civil War. V 3503y: from the Civil War to the present. —R. Balmer

3 points. Tu Th 10:35-11:50

H

Religion-Sociology RSC V 3508x
Religious Cults in
Contemporary American Society

3 points. Not offered in 1992-93.

S

REL V 3513x**Philosophy of Religion**

3 points. Not offered in 1992-93.

H

REL V 3700y**Women and Religion**

A survey of feminine images and women's roles in selected Eastern and Western religious traditions; reemergence of Goddess religion and wicca; the challenge of modern feminism.

3 points. Not offered in 1992-93.

H

REL V 3701x

Women and Feminine Imagery
in Western Mystical Traditions

3 points. Not offered in 1992-93.

H

HIR V 3750y

Introduction to African-American
History and Culture

An interdisciplinary approach to the field of African-American studies using work from history, religion, literature, film, music and philosophy. The focus will be on classic scholarly studies which deal with the African-American experience and on some of the major cultural productions of the black community. —J. Weisenfeld

3 points. M W 1:10-2:25

H

Religion-Sociology RSC V 3720y
Sociology of Religion

3 points. Not offered in 1992-93.

H

REL V 3780y**Religion in Racially Stratified Societies**

3 points. Not offered in 1992-93.

H

SEMINARS AND READING COURSES

Note: Students must obtain permission of the instructor.

REL V 3800x**Majors' Colloquium: Comparative Mysticism**

Critical issues in the modern study of religion.

—P. Awn

Required for all senior majors.

4 points. W 4:10-7:00

H

REL V 3803x**Seminars in Religious Thought**

4 points.

13. Mormonism

A survey of the origins, history, and development of the Church of Jesus Christ of Latter-day Saints, with an emphasis upon its struggle for legitimacy within American culture. —R. Balmer

Tu 2:10-4:00

H

35. Religion and Culture Contact:
The Colonial Americas

Examining the contact between Native Americans, Africans and Europeans in the Americas from approximately 1500 to 1700, with particular emphasis on religious interaction. Topics include pre-contact cultures, models of cultural interaction, missionary strategies, and the responses of the colonized peoples.

—J. Weisenfeld

W 2:10-4:00

H

36. Classical Sufi Texts

—P. Awn

Th 2:10-4:00

H

44. Tibetan Civilization

—R. Thurman.

W 4:10-6:00

H

REL V 3804y**Seminars in Religious Thought**

4 points.

37. Black Women's Religious Experiences

An examination of the religious experiences of black women through case studies of women in Africa, the Caribbean, Latin America and the United States. Particular attention will be paid to the experiences of African-American women in both institutional and non-institutional arenas. —J. Weisenfeld

W 4:10-6:00

H

40. Women and Religion in
American History

An examination of the role of women and issues of gender in shaping religion in America, with attention both to primary sources and to recent historiography. —R. Balmer

Tu 2:10-4:00

H

41. Women in Indian Culture: Foundations of Hindu and Buddhist Views

Selections from major texts of the ancient Hindu and Buddhist traditions in India to explore the most influential roles and representations of women from ancient through medieval times in India. Included are verses of early Buddhist nuns, Jakata tales, the Indian epics, religious poetry, and Puranic mythology. —B. Gombach
M 11:00-12:50 H

42. Maimonides

A close examination of Maimonides' major ideas, with emphasis on: the relationship between law and philosophy; biblical interpretation; the nature of God; creation and providence; human nature; ethics and law; human perfection. —D. Shatz
Limited to 20 students.
Th 11:00-1:00

43. St Augustine

Introduction to an influential Western Christian writer, and to the cultural moment from which he emerged. —C. Cooper
Limited to 20 students.
Tu 4:10-6:00 H

45. Monotheism East and West

—G. Mann
Tu 4:10-6:00 H

Middle East-Religion MDR V 3030y
Poetics of the Sacred:
a Cross-Cultural Investigation into the Nature of Mysticism and Poetic Language
An examination of the work of mystic-poets from both Asian and Western traditions; focusing on the paradigm of vision and silence, the effort to express the ineffable. Readings include Upanishads, Rumi, Han Shan, John of the Cross, Blake, Eliot, Gary Snyder, and critical works on mysticism and poetic language. —E. Huberman
Tu 11:00-12:50 H

History-Religion HIR V 3820y
Religion and Society in Modern India
4 points. Not offered in 1992-93. H

REL V 3901x, REL V 3902y
Guided Reading and Research
A program of study designed to give majors an opportunity to pursue independently a subject of their choosing. A written essay is required.
—Staff
3 or 4 points. If one elects this rubric in connection with the preparation of a senior essay, a maximum of four points are allowed in the course of an academic year, normally with no more than three falling in a single term. Otherwise, the course is confined to a semester's length and evaluated at three points. Consultation periods to be arranged with adviser. H

Professors: Richard F. Gustafson (Chair), Marina Ledkovsky

Assistant Professor: Catharine Nepomnyashchy¹

Associate: Mara Kashper

Other officers of the University offering courses in Russian:

Professors: Robert L. Belknap, Robert A. Maguire

Associate Professors: Frank Miller, Irina Reyfman

Assistant Professor: Cathy Popkin

Lecturers: Alla Arsenian, Dina Dukach

¹Absent on leave 1992-93.

The Russian Department at Barnard offers a program designed to help the student obtain reasonable fluency in the spoken and written language, a reading command of Russian adequate for interpreting texts of some difficulty, and a general knowledge of Russian literature and culture, especially of the nineteenth and twentieth centuries. The department insists upon a strong foundation in the language, because this best prepares students for future graduate study in literature, history, economics, or political science, as well as for careers in government, business, journalism, or international law.

Foreign Language Requirement for the Degree: all students must take a placement examination before entrance. This examination tests the student's knowledge of grammar, her comprehension of written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others must complete Russian V 1202, *Intermediate Course*, or any course beyond that level. Students whose native language is Russian should consult with the department chairman.

The Russian Club attends Russian movies, operas, and church services, and visits Russian restaurants and areas of the city where Russian is spoken.

REQUIREMENTS FOR THE MAJOR

Students must have completed two years of college Russian before entering the program. Prospective majors or minors should consult with either Professor Gustafson or Professor Ledkovsky as early as possible.

A total of 11 courses are required for the major:

Usually taken in the second year:

Russian V 1220	<i>Nineteenth-Century Russian Literature</i>
Russian V 1221	<i>Twentieth-Century Russian Literature</i>

Usually taken in the third year:

Russian V 3331-V 3332	<i>Advanced Course</i>
Russian V 3333-V 3334	<i>Introduction to Russian Literature</i>

Usually taken in the fourth year:

Russian V 3443-V 3444	<i>Fourth-Year Course</i>
Russian V 3595	<i>Seminar</i>

Two electives in literature.

Independent study with any of the faculty at Barnard and the Department of Slavic Languages and Literatures at Columbia University can usually be arranged, and study in Russia is possible as part of the major.

REQUIREMENTS FOR THE MINOR

A total of five courses beyond the second year of Russian are required for the minor. No courses in translation count toward the minor.

COURSES OF INSTRUCTION

LANGUAGE COURSES

RUS V 1101x-RUS V 1102y **Elementary Course**

Grammar, reading, composition, and conversation. *Required: Course V1501- V1502. Homework includes listening to tapes available in the language laboratory. No credit is given for V 1101 unless V 1102 is satisfactorily completed. Enrollment limited. Students must sign up in Columbia Slavic Department (HAM 708) prior to class. Department permission is required.* 4 points. Instructors to be announced.

Sec. 1 M Tu W Th F 9:00

Sec. 2 M Tu W Th F 10:00

Sec. 3 M Tu W Th F 11:00

Sec. 4 M Tu W Th F 12:00

Sec. 5 M Tu W Th F 1:10

RUS V 1101y **Elementary Course**

Equivalent to V 1101x, but given in Spring Term. —Instructor to be announced. 4 points. M Tu W Th F 10:00

RUS V 1102x **Elementary Course**

Equivalent to V 1102y, but given in Autumn Term. —Instructor to be announced. *Prerequisite: V 1101 or the equivalent.* 4 points. M Tu W Th F 10:00

RUS V 1501x-RUS V 1502y **Elementary Grammar Lecture**

Required weekly grammar lecture for Course V1101-V1102. Th 12:00-12:50 or Th 2:30-3:30

RUS V 1201x-RUS V 1202y **Intermediate Course**

Reading, composition, grammar review. —Instructors to be announced. *Prerequisite: Course V 1102 or the equivalent. Enrollment limited. Students must sign up in Columbia Slavic Department (HAM 708) prior to class. Department permission required.* 4 points.

Sec. 1 M Tu W Th F 10:00

Sec. 2 M Tu W Th F 11:00

Sec. 3 M Tu W Th F 12:00

Sec. 4 M Tu W Th F 1:10

RUS V 1201y **Intermediate Course**

Equivalent to V 1201x, but given in Spring Term. —Instructor to be announced. *Prerequisite: V 1102 or the equivalent.* 4 points. M Tu W Th F 10:00

RUS V 1202x **Intermediate Course**

Equivalent to V 1202y, but given in Autumn Term. —Instructor to be announced. *Prerequisite: V 1201 or equivalent.* 4 points. M T W Th F 10:00

RUS V 3331x, RUS V 3332y **Advanced Course**

Emphasis on conversation and composition; reading and discussion of selected texts and video tapes; lectures, papers, and oral reports. Conducted entirely in Russian. — M. Kashper, and instructor to be announced *Prerequisite: Two years of college Russian and permission of the instructor. Enrollment limited. Students must sign up in Columbia Slavic Department (HAM 708) prior to first class.* 4 points. Sec. 1 M Tu W Th F 10:00
Sec. 2 M Tu W Th F 1:10

RUS V 3441x, RUS V 3442y **Fourth-Year Conversation and Composition**

Discussion and composition on contemporary topics. Development of speaking skills and strategies. For students wishing to acquire greater proficiency in speaking and writing Russian. —D. Dukach *Prerequisite: Three years of college Russian and permission of the instructor. The second term may be taken without the first.* 3 points. M W F 10:00-10:50

RUS V 3443x, RUS V 3444y **Fourth-Year Course**

Reading and discussion of selected texts from 20th-century Russian literature. Discussion of different styles and levels of language, including word usage and idiomatic expression. Written exercises, translations into Russian, composition and oral reports. —M. Kashper

Prerequisite: Three years of college Russian and permission of the instructor. The second term may be taken without the first.

4 points. M W F 11:00-12:15

RUS W 4432x
Contrastive Phonetics and Grammar of Russian and English

Comparative phonetic, intonational, and morphological structures of Russian and English, with special attention to typical problems for American speakers of Russian. —F. Miller

Prerequisite: Four years of college Russian and permission of the instructor.

3 points. Tu Th 2:40-3:55, and two hours to be arranged.

RUS W 4433y
Specific Problems in Mastering Russian

The Russian verb (basic stem system, aspect, locomotion); prefixes; temporal, spatial, and causal relationships; word order; word formation. —F. Miller

Prerequisite: Four years of college Russian and permission of the instructor.

3 points. Tu Th 2:40-3:55, and two hours to be arranged.

RUS W 4434x, W 4435y
Advanced Composition:
The Writing of Expository Prose

Practice in the varieties of critical writing. Development of vocabulary and syntactic structures appropriate for abstract discourse.

Conducted entirely in Russian. —M. Ledkovsky

Prerequisite: Four years of college Russian and permission of the instructor.

3 points. M W 11:00-12:15

LITERATURE COURSES

RUS V 3333x-3334y
Introduction to Russian Literature

A close study in the original of representative works of Russian literature from Pushkin to Solzhenitsyn. —I. Reyfman

Prerequisite: Grade of B- or better in RUS V 1202 or permission of the instructor. For non-native speakers of Russian.

3 points. M W F 1:10

H

RUS W 4040y
Masterpieces of Russian Literature:
19th Century

A close study in the original of representative works by Pushkin, Lermontov, Gogol, Turgenev, Ostrovsky, Tolstoy, Dostoevsky, Leskov, Chekov. —I. Reyfman

Prerequisite: Native or near-native knowledge of Russian and permission of the instructor.

3 points. M W F 12:00-12:50

H

RUS W 4041y
Masterpieces of Russian Literature:
20th Century

A close study in the original of representative works by Andrei Bely, Sologub, Pasternak, Bulgakov, Nabokov, Olesha, Mandelstam, Anna Akhmatova, Solzhenitsyn, Abram Terts, and Brodsky. —I. Reyfman

Prerequisite: Native or near-native knowledge of Russian and permission of the instructor.

3 points. Not offered in 1992-93.

H

RUS V 3461x
Pushkin

Pushkin's narrative, dramatic, and lyrical verse in the original. Conducted mainly in Russian.

Examinations in English. —I. Reyfman

Prerequisite: RUS V 3334 or permission of the instructor.

3 points. Not offered in 1992-93.

H

RUS V 3462x
Gogol

The major works of Gogol, in the original. Class discussion conducted in English. —R. Maguire

Prerequisite: RUS V 3334 or permission of the instructor.

3 points. Tu Th 10:35-11:50

H

RUS V 3463y
Tolstoy

A close reading, in the original, of Anna Karenina. Class discussion conducted in English. —R. Gustafson

Prerequisite: RUS V 3334 or permission of the instructor.

3 points. Not offered in 1992-93.

H

RUS V 3464y
Dostoevsky

One major novel in the original, with emphasis on linguistic and literary analysis. —R. Belknap

Prerequisite: RUS V 3334 or permission of the instructor.

3 points. Not offered in 1992-93.

H

RUS V 3466y
Chekhov

Close reading, in the original Russian, of representative short stories and one drama. Class discussion in English. —C. Popkin

Prerequisite: 3 years of Russian and V 3333-3334 or permission of the instructor.

3 points. Not offered in 1992-93.

H

RUS V 3465y

Russian Poetry in the 19th and 20th Centuries

Selected texts from representative lyric poets, including Tiutchev, Fet, Blok, and others; metrics, formal analysis of style and structure, and relationships to literary and philosophical movements.

—M. Ledkovsky

Prerequisite: RUS V 3334 or permission of the instructor.

3 points. M W 2:40-3:55

H

RUS V 3467x

Twentieth-Century Prose Writers

A close study in the original of major writers of the 1980s. Class discussion in English.

—C. Nepomnyashchy

Prerequisite: RUS V 3334 or permission of the instructor.

3 points. Not offered in 1992-93.

H

RUS V 3595x

Seminar

Topic: The growth of Russian national self-awareness. Class reports culminating in a critical paper. —M. Ledkovsky

Prerequisite: Major status or permission of the instructor.

4 points. W 2:10-4:00

RUS V 3596x or y

Individual Research

Supervised individual research culminating in a critical paper. —M. Ledkovsky

Open to senior majors, and permission of the instructor is required.

4 points. Hours to be arranged.

Russian Literature in Translation

RUS V 1220x

Nineteenth-Century Prose

The development of prose forms from Pushkin to Chekhov, including works by Lermontov, Gogol, Turgenev, Dostoevsky, and Tolstoy. —C. Popkin

A knowledge of Russian is not required.

3 points. Tu Th 1:10-2:25

H

RUS V 1221y

Twentieth-Century Prose

Course of Russian prose fiction from symbolism to the present: including works by Bunin, Gorky, Bely, Zamyatin, Babel, Zoshchenko, Olesha, Bulgakov, Platonov, Nabokov, Pasternak, Solzhenitsyn, and Trifonov. —C. Popkin

A knowledge of Russian is not required.

3 points. Tu Th 1:10-2:25

H

RUS V 1222y

Tolstoy and Dostoevsky

Major works of the two writers. —R. Gustafson

A knowledge of Russian is not required.

3 points. M W 1:10-2:25

H

RUS V 1224y

Introduction to Russian Culture

Principal currents of Russian thought and artistic expression with emphasis on elements that appear to be characteristically Russian.

A knowledge of Russian is not required.

3 points. Not offered in 1992-93.

RUS V 1225y

Russian Women—Myth and Reality

Literary and historical records studied chronologically with focus on women's social position, their literary image, and their contribution to culture. Special attention to the Soviet period.

—M. Ledkovsky

A knowledge of Russian is not required.

3 points. Not offered in 1992-93.

RUS V1226y

Russian Culture:

The Soviet Experience and Beyond

A survey of the historical development and contemporary problems of society. Attention given to cultural myths, popular culture, and the effects of glasnost and perestroika. —C. Nepomnyashchy

A knowledge of Russian is not required.

3 points. Not offered in 1992-93.

Religion-Russian RER G 4006y

Modern Russian Religious Thought

Concepts of God, man, nature, and history; Chaadaev, Khomyakov, Solovyov, Fyodorov, Berdyaev, Shestov, Florensky, Bulgakov, Lossky, Frank and others. —R. Gustafson

A knowledge of Russian is not required; permission of instructor is required.

3 points. Not offered in 1992-93.

H

- Professor Emerita:** Mirra Komarovsky¹
Associate Professor: Jonathan Rieder (Chair)
Assistant Professor: Lynn Chancer
Adjunct Professors: Nathalie Friedman, Theresa Rogers
Other officers of the University offering courses listed below:
Professors: Priscilla Ferguson, Herbert Gans, Eugene Litwak, Marie Ruggie, Alan Silver, Seymour Spilerman, Harrison White
Associate Professors: Hiroshi Ishida, Eric Leifer
Assistant Professors: Karen Barkey, Martina Morris

¹Special Lecturer

Sociology aims to uncover the theoretical principles that illuminate social life. In pursuing this goal, sociology exhibits a diversity of perspectives. This pluralism is one source of the discipline's vitality. Some scholars reach out to the sciences for their model of sociological inquiry; others look to more humanistic and historical endeavors for their inspiration and identity. But in all its different forms, the discipline as a whole strives to develop rigorous methods, both qualitative and quantitative, for analyzing social life.

Sociology involves more than the accumulation of theory and method for its own sake. Perhaps above all else, sociology is devoted to the exploration of actual social life in all its variousness. Thus it is that sociology majors examine the dynamic processes through which human beings express their social being: cooperation, conflict, power, exchange, morality, symbolism, domination, dependency, deviance, social control, violence. Students also study the forms to which these processes give rise: social networks, small groups, face-to-face interaction, subcultures, families, gender divisions, religion, popular and high culture, social class, structures of race and ethnicity, bureaucracy, social movements, professions, and the state. The Barnard Department of Sociology tends to focus on these forms and processes as they unfold in the United States. At the same time, we seek to guard against provincialism by grounding our analyses comparatively and exploring the social life of less developed, developing, and other mature industrial societies.

There are no special admissions requirements or procedures. Students (majors and non-majors) are encouraged to consult with members of the department regarding their choice and sequence of courses. Combined and double majors may be arranged. In addition, the Columbia department offers a wide variety of sociology courses which are open to interested Barnard students.

REQUIREMENTS FOR THE MAJOR

The major prepares students for graduate work in sociology as well as in other disciplines; for professional schools (law, business, social work, journalism, urban planning), and for all occupations requiring general knowledge of society and social interaction as well as basic skills of social research.

- A minimum of 10 courses is required for the major, including
- | | |
|----------------------|--|
| SOC BC 1001, BC 1002 | <i>Introduction to Sociology</i> |
| SOC BC 3082 | <i>Junior Colloquium</i> |
| SOC V 1205 | <i>Evaluation of Evidence</i> |
| SOC V 3212 | <i>Methods of Social Research</i> |
| | (both no later than the junior year) |
| SOC BC 3087-BC 3088 | <i>Individual Projects for Seniors</i> |

and at least three other courses selected in consultation with the major adviser. Sociology V 1205 and V 3212 should be taken, if possible, in the sophomore year and no later than the junior year.

There is no major examination. To graduate, a student must complete, to the satisfaction of her instructor in BC 3087-BC 3088, a long paper involving some form of sociological research and analysis.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor in Sociology, including SOC BC 1001, BC 1002, and three courses to be selected in consultation with the Sociology adviser.

COURSES OF INSTRUCTION

SOC BC 1001x

Introductory Sociology, I

Introduction to the sociological perspective on human behavior; major theoretical orientations, research methods, and policy uses. Application of basic sociological concepts to the study of love and death. Process of social learning in childhood and adulthood; sex role differences; agents of socialization; family; deviant behavior.

—N. Friedman

3 points. M W 2:40-3:55

S

SOC BC 1002y

Introductory Sociology, II

General introduction to sociological analysis continued. Impact of small groups and formal organizations on individual behavior; selected topics in family, education, work, religion, and politics; stratification and social change.

—N. Friedman

Prerequisite: BC 1001 or permission of the instructor.

3 points. M W 2:40-3:55

S

SOC V 1005x

Medical Care in Twentieth Century America

An institutional and historical analysis of the critical changes that have influenced the organization and content of medical services today—the reform of medical education, the rise of specialization, the role of the hospital, the place accorded public health, the impact of third-party payers and for-profit facilities. —T. Rogers

3 points. Not offered in 1992-93.

S

SOC V 1205x

Evaluation of Evidence

A non-technical introduction to alternative strategies by which social science data are transformed into evidence for theoretical arguments. Discussion of the logic and procedures of social science research and standards for the critical evaluation of that research; the discussion is

based on a careful reading and analysis of significant studies exemplifying the use of different kinds of social science data and methods (field observations, historical archives, surveys, and experiments). —M. Morris

3 points. Tu Th 2:40-3:55

S

Note: One introductory course in sociology suggested for all 3000-level courses.

SOC BC 3082y

Junior Colloquium:

Perspectives on Social Order

An examination of the major theoretical frameworks sociologists use to analyze power: symbolism, conflict, inequality, exchange, consensus, deviance, organization, values, and affiliation. Students will complete a prospectus that outlines the substantive topic, methodological approach, and theoretical concerns of their senior essays.

—J. Rieder

Prerequisite: Two introductory courses SOC 1001, 1002 or permission of the instructor.

4 points. W 4:10-6:00

S

SOC BC 3087x-3088y

Individual Projects for Seniors

The instructor will supervise the writing of long papers involving some form of sociological research and analysis. —N. Friedman

Required of all senior majors.

4 points. W 4:10-6:00

SOC V 3013x

Gender and Health

Analysis of changing perspectives on women's/men's health status and their roles in the health sector. Topics include women's/men's mental and physical health, contraception, pregnancy, childbirth, morbidity, and mortality examined in the context of social science theories and evidence. —T. Rogers

Permission of instructor required. Enrollment limited to 16 students.

4 points. Tu 4:10-6:00 S

SOC V 3100x

Introduction to Social Theory

The rise and transformation of modern society in the 19th and 20th century. "Classical" literature such as Marx, Durkheim and Weber will be read. Selected topics: the relationship between individual, society, and polity; gender relations, class, and status relations; moral and instrumental action. —M. Ruggie

3 points. M W 10:35-11:50 S

SOC BC 3115x

Feminist Theory

An analysis of the theoretical assumptions and political implications of liberal, radical, Marxist, and socialist variants of first and second-wave feminist theory, including recent works in psychoanalytic and post-modern feminism. The course also considers the implications of such feminist arguments for debates within contemporary and classical sociological theory. —L. Chancer

Permission of the instructor required. Enrollment limited to 15 students.

4 points. W 4:10-6:00 S

SOC V 3200y

Gender, Class and Race

An examination of the critical role that gender, class, and race play in social life, and their relationship to inequality, community, and culture. The course will focus on reactions to and perceptions of difference in the spheres of family, work, sexuality, and politics. —L. Chancer

3 points. Tu Th 2:40-3:55 S

SOC V 3212y

Methods of Social Research

Introduction to elementary data analysis. Definition and measurement of variables; testing of hypotheses; interpretation of findings. Students use the computer to perform a simple analysis of a data set. —H. Ishida

Prerequisite: Sociology V1205x.

3 points. M W 11:00-12:15

One hour laboratory per week.

SOC V 3213y

Culture in Contemporary America

An analysis of the values and meanings that form American pluralism, the communities that create and consume culture, and the organizations that produce and distribute culture. Examples come from popular and elite culture: American indi-

vidualism, rhythm and blues, Christian fundamentalism, advertising, abstract art, Orthodox Judaism, abortion politics, Reaganism, television comedy. —J. Rieder

3 points. Tu Th 10:35-11:50 S

SOC W 3220x

Inside Larger Organizations

The control struggles behind the rise and current position of unions, professions, and managerial hierarchies inside large organizations. The contemporary problems of designing large organizations and controlling members in a way consistent with the hard-won prerogatives of workers, professionals, and managers. Mobility and careers that bind together organizations. Case studies are used, including one on the rise and current structure of organized baseball. —E. Leifer

3 points. M W 2:40-3:55 S

SOC 3221x

Social Disorganization: Deviance and Social Control

A study of different theoretical approaches to deviance and an analysis of important empirical research on various forms of deviant behavior. Crime is considered within the broader context of social deviance. —P. Read

3 points. M W 4:10-5:25 S

SOC 3222y

Criminology

Building upon theoretical perspectives studied in SOC W 3221x, theories and research relating to criminal behavior are examined. Topics include the comparative study of crime, juvenile delinquency, organized crime, and public policies to control and prevent crime. —P. Read

3 points. M W 4:10-5:25 S

Sociology SOC V 3225x

Sociology of Education

Social organization of education in the United States and its effects. Examines schools as agents of socialization: the contribution of education to social equality and inequality; schools as formal and informal organizations; teachers and students; and the politics of education including case studies of desegregation, decentralization, and public versus private schooling. —K. Neckerman

3 points. Tu Th 10:35-11:50

SOC V 3228y

Sociology of Medicine

An analysis of illness and its management in contemporary society. Topics include social defi-

nitions of health and illness; the structure of the "sick" role; social factors in the etiology and distribution of illness; social organization of the medical profession and of the hospital; problems and prospects of health delivery systems.

—T. Rogers

3 points. M W 2:40-3:55

SOC V 3237y

Personal Relations in History

Impact of modern culture, market society, and bureaucracy on the ideals and practices of personal relations, with special emphasis on friendship. Trust, loyalty, sincerity, intimacy, and their opposites in ancient society, the Middle Ages and Renaissance, and contemporary society. Readings from literature, history, and anthropological and sociological research and theory. —A. Silver

Not recommended for freshmen. Admitted only with permission of the instructor.

3 points. M W 2:40-3:55

S

SOC W 3238x

Sociology of Everyday Life

Approaches to the study of culture through readings of the familiar "texts" of everyday life and the practices they reveal. Topics include food and cuisine, manners, urban topography, gender and popular culture. —P. Ferguson

3 points. Tu Th 1:10-2:25

SOC W 3240x

Introduction to Japanese Society

Japanese society and culture. Its background, development, and present status. The transformation of a non-Western, nonindustrialized society into an advanced, modern industrial society. —H. Ishida

3 points. *Not offered in 1992-93.*

SOC V 3265y

Minorities and Ethnic Groups in American Life

The role of racial and ethnic communities in modern American society, with emphasis on the distinctive cultural, political, and occupational patterns, as well as the tendencies to intermarry, assimilate, and conflict. Jewish, Italian, Irish, Puerto Rican, and African-American groups, among others, are studied. —E. Litwak

3 points. M W 4:10-5:25

SOC V 3302y

Sociology of Gender Roles

Social construction of sex and gender roles in a number of different settings, including family, work, and politics. Examination of factors in gender identity that are both universal (across time,

culture, setting) and specific to a social context. Attention to the role of social policies in reinforcing norms or facilitating change. —M. Ruggie

3 points. M W 10:35-11:50

SOC V 3303y

Female and Male A Sociological Perspective

Economic, demographic, and cultural changes modifying the traditional conceptions of masculinity and femininity; stresses in female-male relationships at various stages of the life cycle and in the family, occupational world and other institutional settings; class and race differences in social roles of the sexes; social policies leading to the alleviation of current problems. —M. Komarovsky

Enrollment limited to 35 students Sign-up sheet, 317 Milbank Hall.

3 points. M W 11:00-12:15

S

SOC V 3310x

Gender and Deviance

This course examines how gender categories can bestow deviant status on women and men.

Theories of deviant behavior are reinterpreted in light of new perspectives on gender. Proposed topics include sexuality (e.g. maternity norms, reproductive rights issues, diversity of sexual practices); mental illness, crimes by and against women; cultural representations of gender. —L. Chancer

3 points. Tu Th 2:40-3:55

SOC V 3331y

Creation and Career in Art Worlds

Provides a heightened appreciation of the arts and the social forces through which they are made. Explores how patrons and artistic organizations combine with audiences and informal networks of artists to provide resources (emotional, intellectual and material support) necessary to artistic careers. Examines how social relations and cultural canons around artists affect the form and content of their art. —H. White

3 points. Tu Th 2:40-3:55

SOC W 3238x

Sociology of Everyday Life

Approaches to the study of culture through readings of the familiar "texts" of everyday life and the practices they reveal. Topics covered include food and cuisine manners, urban topography, gender and popular culture. —P. Ferguson

3 points. Tu Th 9:10-10:25

S

SOC W 3440x

Economy and Society

How corporate elites are organized, and their resulting influence in government policy and

regulation. Similarities are found in elite organization across a variety of scales and cultures. How the base of elite power markets is organized as seen in a variety of case studies, from a Nigerian cattle market to Hollywood music composers to corn wet milling. How antitrust history illustrates the role of corporate elite in this seemingly anti-large business policy, and how to reformulate it on the basis of a sociological view of how markets actually work. —E. Leifer
3 points. M W 11:00-12:15

S

SOC V 3555y
Sociology of Family Institutions

An examination of major theoretical frameworks and empirical research concerning the family. Analysis of the contemporary industrial family, with considerable attention to historical and cross-cultural materials. Some topics are: courtship and mate selection; sex roles and sexuality; alternative family structures; parenthood and the changing status of children; the impact of class, ethnicity and race on family life; social-policy and the future of the family. —L. Chancer
3 points. Not offered in 1992-93.

S

SOC W 3664y
Comparative Political Sociology

Brief overview of the principal theories in comparative politics and the principal types of political systems in political evolution; the organization of politics in contemporary societies, emphasizing the dynamics of gaining, maintaining, using, and abusing political power. Relationship of political systems to social environments; methodological problems of acquiring and applying sociological knowledge of politics. —K. Barkey
3 points. Tu Th 10:35-11:50

S

SPANISH

213 Milbank Hall

Chair: 854-8713

Language Coordinator: 854-5422

Faculty Secretary: 854-5417

Professors: Alfred Mac Adam, Mirella Servodidio, Marcia L. Welles (Chair)

Assistant Professors: Alicia Ramos, Perla Rozencvaig

Lecturers: James Crapotta (Language Coordinator), Flora Schiminovich, Agueda Rayo, José Hernández

The Spanish major trains the student to express herself fluently in both oral and written Spanish. It provides her with an intellectual grasp of both the literature and culture of Spain and Latin America.

Foreign Language Requirement for the Degree: First-year students with prior training in Spanish who wish to satisfy Barnard's foreign language requirement in Spanish will be placed in the appropriate language course either on the basis of their CEEB score or the pre-registration placement test administered by the Spanish Department. Students scoring 4 or above on the placement test will be exempted. All others must complete BC 1204. Spanish-speaking students may take BC 1208x instead with permission of instructor. Transfer students should consult the department chair.

The Spanish Club facilitates joint faculty-student projects. The Club sponsors discussion sessions, films and lectures by writers, artists, and visiting scholars. The Spanish Club has traditionally been active in the production of classic and contemporary Spanish language drama, a means whereby faculty and students create a link between Barnard and the New York Hispanic communities.

REQUIREMENTS FOR THE MAJOR

Interested students should consult members of the department as early as possible in order to create a course of study suited to their particular interests. The Spanish Department also provides guidance for students interested in the Spanish subdivision of the Foreign Area Studies major. The Spanish Department actively encourages students to study abroad and may be consulted about these programs.

There are three majors available to prospective students in the department: **I. Language and Literature**, **II. Spanish Studies**, **III. Latin American Studies**. Each option requires a Senior Essay (BC 3999x or y *Independent Study for Majors*).

I. Language and Literature: This program emphasizes a knowledge of Spanish language and the literature of Spain and Latin America. The major consists of 11 courses.

The six required courses are:

- | | |
|---------------|---|
| BC 3115 | <i>Latin-American Culture I</i> |
| BC 3121 | <i>The Literature of Latin America: From the Colonial Period to Modernism</i> |
| BC 3123 | <i>Spanish Literature in the Middle Ages and the Early Renaissance</i> |
| BC 3127 | <i>Don Quijote</i> |
| BC 3125 | <i>The Struggle of Two Spains</i> |
| BC 3999x or y | <i>Independent Study for Majors</i> (thesis topic and adviser to be selected) |

Five electives of (3 points each) to be chosen from literature and culture courses at the 3000 level (in Spanish).

Requirements for the Minor: Five Courses: BC 3121, BC 3123, BC 3127 and three electives (of 3 points each) from the language and literature options at the 3000 level (in Spanish).

II. Spanish Studies: This program emphasizes the literature, history, and culture of Spain. The major consists of 12 courses (eight within the Department of Spanish, four within other disciplines).

The five required courses are:

- BC 3123 *Spanish Literature in the Middle Ages and the Early Renaissance*
- BC 3124 *Literature of the Golden Age*
- BC 3125 *The Struggle of Two Spains*
- BC 3129 *The Culture of Spain*
- BC 3999x or y *Independent Study for Majors* (thesis topic and adviser to be selected)

Three electives of 3 points each to be chosen from the Peninsular literature and culture courses at the level 3000 level (in Spanish). BC 3004, Section 2, *Language and World View: Special Issues in Contemporary Spain* and BC 3131 *Civil War and Post-War Spain: Myth and Reality Through Film, History, and Literature* are strongly recommended.

Four courses from offerings in the Social Sciences or Humanities that relate to Spain and define a special field of interest (to be chosen in consultation with the Major adviser). History BC 1011 and 1012 *Introduction to European History* are strongly recommended.

III. Latin American Studies: This program emphasizes the literature, history, and culture of Latin America. The major consists of 14 courses (eight within the Department of Spanish; six within other disciplines).

The four required courses are:

- BC 3115 *Latin American Culture I*
- BC 3116 *Latin American Culture II*
- BC 3121 *The Literature of Latin America: From the Colonial Period Through Modernism*
- BC 3999x or y *Independent Study for Majors* (thesis topic and adviser to be selected)

Four electives of 3 points each to be chosen from the 3000 level, two of which must pertain to specific regions of Latin America (BC 3113 *Contemporary Caribbean Literature*; BC 3117 *Literature of the Southern Cone*; BC 3118 *Contemporary Mexican Literature*; BC 3119 *Literature of the Andes*; BC 3120 *Twentieth-Century Puerto Rican Literature*).

Six courses in the Social Sciences or Humanities that pertain to Latin America and define a special field of interest (to be selected in consultation with the major adviser).

COURSES OF INSTRUCTION

LANGUAGE COURSES

(Enrollment limited to 20 students per section.)

Sec. 1 M Tu W Th 10:00

Sec. 2 M Tu W Th 1:10

Sec. 3 M Tu W Th 3:10

SPA V 1101x-1102y

Elementary Full-Year Course

An introductory course to Spanish as a vehicle for oral and written communication. Emphasis on speaking, listening comprehension, reading and writing. Fundamentals of grammar.

"Walkman" player required for homework on audio tapes. —Staff

No credit is given for V 1101 unless V 1102 is completed.

4 points. Sec. 2 M-F 10:00

Sec. 3 M-F 11:00

SPA BC 1103x

Intensive Review of Elementary Spanish

Course for incoming students whose score on the placement examination puts them between the beginning and intermediate level. To be followed by BC 1203y. —Staff

4 points.

SPA BC 1203x, y

Intermediate Course, Part I

Further development of spoken and written communication skills. Review of grammar and syntax. Discussion and analysis of short literary texts.

Some linguistic and cultural analysis of contemporary Spanish videos and films. —Staff

Prerequisite: V 1102 or BC 1103 or the equivalent. 4 points.

x: Sec. 1 M Tu W Th 10:00

Sec. 2 M Tu W Th F 11:00

Sec. 3 M Tu W Th F 3:10

y: Sec. 1 M Tu W Th 10:00

Sec. 2 M Tu W Th 1:10

Sec. 3 M Tu W Th 3:10

SPANISH

SPA BC 1205x

Intermediate Course, Part I, Through Theatre

An alternate course to Spanish BC 1203 (students may not receive credit for both courses), stressing oral and written skills through reading and performance of dramatic texts. Review of pronunciation and grammar through analysis of dialogue.

Writing of original scripts and dramatic monologues. Videotaping of some performances.

Recommended for students particularly interested in developing communicative skills. —Staff

Prerequisite: V 1102 or BC 1103 or the equivalent.

Limited to 15 students.

4 points. M Tu W Th 4:10

SPA BC 1204x, y

Intermediate Course, Part II

Review of more advanced grammar points.

Readings, discussions and analysis of important works by Latin American authors. Analysis and discussions of Latin American film. —Staff

3 points.

x: Sec. 1 M W F 10:00

Sec. 2 M W F 11:00

y: Sec. 1 M W F 10:00

Secs. 2, 3 M W F 11:00

SPA BC 1206x, 1207y

Intermediate Conversation

Designed to advance oral and listening proficiency and to increase vocabulary within a wide range of daily and contemporary topics.

Materials include readings, cassettes and video tapes. Activities include role-playing, interviews, small group activities and oral reports. Some visits to Hispanic cultural events in New York City will be required. —Staff

Recommended parallel: Spanish BC 1203, BC 1204.

Prerequisite: V 1101x-1102y or the equivalent. Not open to native speakers.

2 points. M W 12:00-1:00

SPA BC 1208x

Spanish for Spanish-Speaking Students

Designed for native and non-native Spanish-speaking students who have oral fluency beyond the intermediate level but have had no formal language training. Introduction to Spanish grammar with special emphasis on complex sentence structure and syntax. Writing, reading, and building new vocabulary. May be used to satisfy language requirement with permission of the instructor. —Instructor to be announced.

Prerequisite: oral fluency.

3 points. Tu Th 1:10-2:25

SPA BC 3106y

Advanced Composition and Translation

Designed to improve expository skills and to develop greater stylistic subtlety and flexibility. Translation of various styles of poetry and prose.

—A. Rayo

Prerequisite: BC 1204 or the equivalent.

3 points. Tu Th 2:40-3:55

SPA BC 3107x, 3108y

Advanced Oral Spanish

Designed to advance oral and listening skills through contact with advanced authentic materials such as newspapers, news broadcasts, films and videos. Special emphasis on idiomatic expressions. Discussion and debates around controversial contemporary issues. Oral reports.

Some visits to Hispanic cultural events in New York City will be required. —Staff

Not open to native speakers.

2 points. M W 12:00-1:00

SPA BC 3096y

Poetry Writing in Spanish

Writing of at least two original works of poetry in Spanish to be read and commented upon by the group. Varied assignments designed to explore the resources of language through free association, imitation, allusions and similar techniques. Reading of contemporary Latin American women poets to provide a further context and enrich discussion. —A. Rayo

Prerequisites: satisfaction of language requirement or Spanish-speaking background and permission of the instructor.

2 points. Tu 4:20-6:20

LITERATURE AND CULTURE COURSES

For non-majors, all courses except BC 3129, BC 3115, and BC 3116 will count toward the distribution requirement. All departmental courses are conducted in Spanish unless otherwise stipulated. The prerequisite for all literature and culture courses is satisfaction of the foreign language requirement in Spanish. Exceptions should be discussed with the instructor and the departmental chair.

INTRODUCTORY COURSES

SPA BC 3004y

Language and World View

Reinforcement and development of modern language skills through focused attention on contemporary socio-political issues of Spain and Latin America. Useful for students in Political Science, History, and Economics.

3 points. Limited to 20 students.

3. Hispanics in the United States

An investigation of the cultural and socio-economic patterns of Hispanics in the United States, their participation in the world of entertainment, visual arts and literature and their struggle for political power. Reinforcement of oral and written Spanish. Films, newspaper and magazine articles, essays. —P. Rozencvaig
M W 1:10-2:25

SPA BC 3109x**Introduction to Literary Analysis**

Instruction in techniques of literary analysis applied to works representing different genres. Development of a critical vocabulary. Analysis of style, structure and content. Introduction to theories of criticism. —M. Servodidio
Designed to acquaint students with close reading of a limited number of major literary texts. Emphasis is on the analysis of language and genre and serves as a bridge between intermediate language courses and more advanced courses in literature and culture.
3 points. M W 11:00-12:15

H

LATIN AMERICA**SPA BC 3140x****Narrative and Revolution:
Mexico, Cuba, and Nicaragua**

The study of testimonial literature, historical and political essays and selected works of fiction shedding light on these three revolutionary upheavals occurring in Latin America. Documentary films will be shown. Readings include Mariano Azuela, Martin L. Guzman, Fidel Castro, Reinaldo Arenas, Desnoes, Cortázar, and Omar Cabezas.
—P. Rozencvaig
3 points. M W 1:10-2:25

H

SPA BC 3141y**The Thriller and the Detective Story
in Latin American Literature**

Themes, techniques, and underlying ideologies of the detective, mystery, and thriller narrative in the works of Borges, Silvina Ocampo, García Márquez, Fuentes, and Maria Angélica Bosco.
—F. Schiminovich
3 points. M W 11:00-12:15

H

SPA BC 3115x**Latin American Culture I**

Latin-American history, society and art, from the time of the great Indian empires to the late 19th century. —P. Rozencvaig
3 points. M W 11:00-12:15

SPA BC 3116y**Latin American Culture II:
A Socio-historical Approach**

A revisionist examination of Latin American history, politics and society. From the aftermath of the Wars of Independence (1824-1880) to contemporary Latin America in the context of its modernization and dependency. —A. Mac Adam
3 points. M W 2:40-3:55

SPA BC 3117y**Literature of the Southern Cone:
The Dialectics of Fantasy and Reality**

An examination of the literature of the Southern Cone—Argentina, Uruguay, Paraguay and Chile; the tension between fantastic literature and literary realism. Readings include Borges, Casares, Ocampo, Onetti, Donoso and Augusto Bastos.
—A. Mac Adam
3 points. M W 1:10-2:25

H

SPA BC 3120x**Twentieth Century Puerto Rican Literature**

A study of Puerto Rican authors (Ferré, Sánchez, Vega, and Julia) and their interpretation of socio-historical development in Puerto Rico. The relationship of these texts to historical writing (e.g., Quintero Rivera), and the revisionist trend in Puerto Rican historiography. —F. Schminovich
3 points. Tu Th 2:40-3:55

H

SPA BC 3121x**The Literature of Latin America: From the
Colonial Period Through Modernism**

From the flowering of baroque literature during the colonial period, with special emphasis on the writings of the Sor Juana Inés de la Cruz, to the renaissance of Spanish-American writing during the period of modernism. —F. Schiminovich
3 points. Tu Th 1:10-2:25

H

SPAIN**SPA BC 3123y****Spanish Literature in the Middle Ages
and the Early Renaissance**

A consideration of how east meets west in the forging of a national ethos and culture. The presence of Christians, Moors, and Jews in Spanish literature from its origins to the early 16th century. Readings range from the epic masterpiece *El Poema del Cid* to *La Celestina* by Fernando Rojas. A consideration of art, music and history. Visit to Cloisters. —M. Servodidio
3 points. M W 11:00-12:15

H

SPANISH

SPA BC 3124x

Literature of the Golden Age

A study of the poetry, theatre, and narrative of a society in crisis, as Spain confronts both Islam and the Protestant north, and deals with the problems of rural and urban decline. Authors include Cervantes, Lope de Vega, Tirso de Molina, and Calderón. —M. Welles
3 points. Tu Th 2:40-3:55 H

SPA BC 3126x

Archetypal Patterns in Contemporary Women's Fiction

A consideration of the relationship between contemporary fiction by women and traditional archetypal configurations. The following categories of novels will be studied: the bildungsroman (initiation into adulthood); novels of enclosure (marriage and social involvement); novels of eros (the quest for sexuality); novels of rebirth (personal transformation). Authors studied will be Laforet, Martín Gaité, Tusquets, Alós, Moix, Montero, Roig. —M. Servodidio
3 points. M W 2:40-3:55 H

SPA BC 3127y

Don Quijote

A study of Cervantes' masterpiece, concentrating on the narrative models available to him and his own creation of the "Novel." Readings also include selected *Novelas Ejemplares* and critical studies. —M. Welles
3 points. M W 1:10-2:25 H

SPA BC 3129x

The Culture of Spain

History and culture of Spain: origins and evolution of Spanish character, tradition, and thought; interrelationship of its history and arts and the scope of its contribution to Western culture. Use of audio-visual materials. —M. Welles
3 points. Tu Th 10:35-11:50

SPA BC 3131y

Civil War and Post-War Spain: Myth and Reality Through Film, History and Literature

Contemporary Spanish films serve as a point of departure for the study of the Civil War and Franco periods as both historical fact and myth. Includes an analysis of its representation in memoirs and literary works and its significance in light of Spain's recent political transformation. —A. Ramos
3 points. Tu Th 4:10-6:00 H

COURSES IN ENGLISH

SPA BC 3203x

20th-Century Women Poets of the Americas: Kindred Voices

Cross-cultural themes, images and poetics in women poets of North America and Latin America. Discussion topics include: the search for a matrilineal poetic ancestry; the revival of the goddess; the poetics of subversion. Emphasis on African American, Native American and Latina authors like Ntozake Shange, Sonia Sánchez, Mary Tallmountain. Also Gabriela Mistral, H.D., Rosario Castellanos, Claribel Alegria, Adrienne Rich. —A. Rayo
3 points. Tu Th 2:40-3:55 H

SPA BC 3204y

Literature of the Americas

This course posits and seeks to answer the question: Do the Americas have a common literature? It juxtaposes texts from all over the hemisphere in order to compare their use of themes and genres. Among the authors to be read are Sor Juana Inéz de las Cruz, Emily Dickinson, Poe, Borges, Faulkner, Márquez, Hawthorne and Fuentes. —A. Mac Adam
3 points. Tu Th 10:35-11:50 H

AHS V 3905y

Crosscurrents in the Art and Literature of Spain 1550-1800

An examination of the relationship of themes in Spanish art and literature in their social and historical context from the reign of Philip II to the demise of the ancien régime. Methods of comparative analysis of literature and the visual arts will be considered. Readings include St. Teresa, Lope de Vega, Tirso de Molina, Cervantes, María de Zayas, Calderón de la Barca. —J. Tomlinson, M. Welles
3 points. W 4:10-6:00 H

COURSES OFFERED AT COLUMBIA

SPA W 3265x

Latin American Literature in Translation: The Conquest and The Theory of Literature

—J. Franco
3 points. M W 1:10-2:25

SPA W 3351y

Literature and Culture of Latin America: The Colonial Period through Modernism

—F.M. Rodríguez-Arenas
3 points. Tu Th 2:40-3:55

SPA W 3353x

Literature and Culture of Spain: Medieval through Golden Age

—J. M. Martínez-Torrejón
3 points. M W 2:40-3:55

SPA W 3450y
Short Fiction in Latin America (in Spanish)

—J. Alazraki

3 points. M W 11:00-12:15

SPA W 3500y
Contemporary Spanish Women Writers (in Spanish)

—G. Sobejano

3 points. M W 2:40-3:55

SPA W 3705y
Latin American Civilization: Cultures and Issues (in English)

—F. Martínez-Bonati

3 points. M W 1:10-2:25

SPA W 3720x
Politics and Literature: Latin American Essay (in Spanish)

—F.M. Rodríguez-Arenas

3 points. T R 10:35-11:50

SPA W 3722x
Golden Age Theater (in Spanish)

—M.M. Carrión. 3 points. M W 9:10-10:25

SPA W 3730y
Latino Literature in the United States (in English)

—J. Fránco. 3 points. T R 4:10-5:25

SPA W 3991y
Senior Seminar: García Lorca: Theater and Poetry (in Spanish)

—P. Silver. 3 points. Tu 2:10-4:00

SPA W 3992x
Senior Seminar: Latin American Novel from Regionalism to Modernity (in Spanish)

—J. Alazraki. 3 points. Tu 5:00-7:00

COURSES NOT OFFERED IN 1992-93

Language

SPA BC 1001x-1002y
Intensive Elementary Course

—J. Crapotta, A. Ramos

SPA BC 3008
Language and Film: Issues in Contemporary Spanish Cinema

—A. Ramos

Introductory

SPA BC 3004
1. Latin-American Women Today: Facts and Fallacies

—F. Schiminovich

2. Special Issues in Contemporary Spain

—A. Ramos

SPA BC 3110
An Introduction to Spanish Theater

—J. Crapotta

Latin American Literature

SPA BC 3118
Contemporary Mexican Literature: The Interplay of History and Narrative

—A. Mac Adam

SPA BC 3119
Literature of the Andes: Revolution and Identity

—A. Mac Adam

Spanish Literature

SPA BC 3125
The Struggle of the Two Spains

—M. Servodidio

SPA BC 3128
Eighteenth-Century Spain: Dreams of Reason

—M. Welles

SPA BC 3130
García Lorca: The Poet in His Contexts

—A. Rayo

SPA BC 3132
Contemporary Literature: From the Avant-Garde to Social Realism and After

—M. Servodidio

SPA BC 3133
Violence Disguised: Rape in Spanish Literature

—M. Welles

SPA BC 3134
Marriage and Adultery in 19th-Century Spanish Literature

—A. Ramos

Courses in English

SPA MRS BC 3087
Spain of the Habsburgs: A Culture in Crisis

—M. Welles

SPA BC 3201
Modern Latin-American Narrative

—A. Mac Adam

Officers of the University offering courses in Statistics:

Professors: Yuan Shih Chow, Cyrus Derman (IEOR), Ioannis Karatzas¹, David H. Krantz (Chairman),

Associate Professors: Bruce Levin (School of Public Health), Shaw-Hwa Lo (School of Public Health), Karl Sigman (IEOR)

Assistant Professors: Melissa Begg (School of Public Health), Jaksza Cvitanic, Victor de la Peña, G. Gallego (IEOR), Marianthi Markatou, John Winnicki

Special Lecturer: Howard Levene

Adjunct Assistant Professors: Demissie Alemayehu

¹Absent on leave Autumn Term

The Department of Statistics offers a wide range of courses in probability and statistics. Probability and statistics deal with phenomena involving uncertainty. Probability theory describes the behavior of given random systems, while statistical methods facilitate the discovery of hidden regularities in such systems from observed data. The department trains students to apply statistical methodology in their later careers in the biomedical or social sciences, business, engineering, etc., or to continue with graduate study in statistics, business management, operations research and related fields. Members of the department are actively engaged in both theoretical and applied research. Students may not take both 1001 and 1111 for credit. Certain majors require 1111. Consult your respective major department.

REQUIREMENTS FOR THE MAJOR

All majors should consult the departmental representative regularly in planning their programs of study. The requirements listed below are special to this department and must be read in conjunction with the general requirements for the bachelor's degree. As a rule, no more than 12 points of transfer credit may be accepted toward the major.

A total of 13 courses are required for the major including:

Mathematics V 1101, V 1102 and V 3202, or their equivalents

Statistics-IEOR W 3658 or STAT IEOR W 4105, Statistics W 3659, W 3662 and W 3701.

One approved course in computer science beyond the introductory level and five additional courses to be chosen with departmental approval from statistics, mathematics, computer science, or operations research, at least two of which must be statistics courses numbered above 4100, excluding STAT IEOR W4150.

A major examination set by the department must be passed in the senior year. By special permission, a Senior Project may be substituted.

REQUIREMENTS FOR THE MINOR

The minor in Statistics requires a minimum of six courses, five in statistics including: W 3658 (or W 4105), W 3659, W 3662, and any statistics course numbered above 4100, except STAT IEOR W4150; and one approved course in Computer Science.

COURSES OF INSTRUCTION

STA W 1001x, y**Introduction to Statistical Reasoning**

Designed for students in non-quantitative fields. Probability concepts and basic theory of sampling distributions are used as aids to quantitative reasoning and data analysis, with illustrations drawn mainly from the social sciences. Introduction to use of computers for data management, graph construction, evaluation of simple models, and estimation of unknown parameters.

Prerequisite: some high school algebra.

3 points. x: Tu Th 10:35-11:50 —J. Cvitanic

y: Tu Th 6:10-7:15 —Instructor to be announced

STA W 1111x, y**Introduction to Statistics**

Designed for students in fields (such as economics) that emphasize quantitative methods. Probability concepts and basic theory of sampling distributions are used as aids to quantitative reasoning and data analysis, with illustrations drawn from the natural and social sciences. Introduction to use of computers for data management, graph construction, evaluation of regression models, and estimation of unknown parameters.

Prerequisite: High school mathematics through intermediate algebra. This course may be followed by W 3701 or appropriate courses in statistics given by other departments.

3 points. x: Tu Th 10:35-11:50 —V. de la Peña

y: Tu Th 6:10-7:25 —M. Markatou

STAT-IEOR STI W 3600x, y**Introduction to Probability and Statistics**

Fundamentals of probability and statistics used in engineering and applied science. Probability: random variables, useful distributions, expectations, laws of large numbers, central limit theorem. Statistics: point estimations, confidence intervals; hypothesis tests, linear regressions, ANOVA. —C. Derman

Prerequisite: A working knowledge of calculus.

4.5 points. x: M Tu Th 1:00-2:15

y: Tu W Th 1:00-2:15

Statistics-IEOR STI W 3658x**Probability**

Fundamentals of probability theory.

Distributions of one or more random variables. Moments. Generating functions. Functions of a random variable. Law of large numbers and the central limit theorem. —K. Sigman

Prerequisite: a working knowledge of calculus.

3 points. Tu Th 2:10-3:35

STA W 3659y**Statistical Inference**

Principles of statistical inference. Population parameters, sufficient statistics. Basic distribution theory. Point and interval estimation. Method of maximum likelihood. Method of least squares, regression. Introduction to the theory of hypothesis testing. Likelihood ratio tests. Nonparametric procedures. Statistical design theory. Applications to engineering, medicine, natural and social sciences. —J. Winnicki

Prerequisite: Statistics-IEOR W 3611 or W 3658 or the equivalent.

3 points. W F 4:10-5:25

STA W 3662x**Regression and Analysis of Variance**

Simple linear regression. Multiple regression. Hypothesis testing and confidence sets. Analysis of variance for one-way, two-way factorial designs. Multiple comparisons. Components of variance models. Elements of experimental design; randomized blocks and Latin squares. —H. Levene

Prerequisite: Statistics W 3659 or the equivalent, linear algebra, and computer programming.

3 points. W F 4:10-5:25

STA W 3701y**Introduction to Data Analysis**

Data analysis using a computer statistical package and selected exploratory data analysis subroutines. Topics include editing of data for errors, exploratory and standard techniques for one-way analysis of variance, linear regression and two-way analysis of variance. Material is presented in case-study format. —D. Alemayehu

Prerequisite: A one-term introductory statistics course.

3 points. M 6:00-8:30

Two hours of laboratory to be arranged.

Statistics-IEOR STI W 4105x, y**Probability**

Fundamentals, random variables, and distribution functions in one or more dimensions; moments, conditional probabilities, and densities; Laplace transforms and characteristic functions. Infinite sequences of random variables; weak and strong laws of large numbers; Central limit theorem.

—x: M. Markatou; y: V. de la Peña

Prerequisite: A working knowledge of calculus. Can be taken as the sole course by students needing a basic knowledge of probability or as the foundation for more advanced courses at the senior-undergraduate or M.A. level.

3 points. M 6:50-9:20

STATISTICS

Statistics W 4113y **Nonparametric Statistics**

Given in alternate years. Statistical inference without parametric model assumption. Hypothesis testing using ranks, permutations, and order statistics. Nonparametric analogs of analysis of variance. Tolerance limits. Robust estimation.

Introduction to sequential statistical procedures. Applications to quality control and clinical trials.

—M. Markatou

Prerequisite: Statistics G4107.

3 points. Not offered in 1992-93.

Statistics W 4115x **Multivariate Statistical Inference**

Multivariate normal distribution; multivariate regression and analysis of variance; canonical correlation and tests of independence. Principal components and other models for factor analysis. Discriminant functions and the classification problem; cluster analysis. —M. D. Begg

Prerequisite: Statistics G4112.

3 points. Tu 1:30-4:00

Statistics W 4141x **Sequential Methods in Statistics**

An introduction to the methods of sequential analysis in statistics. Emphasis on developing an understanding and working knowledge of sequential methods currently of interest in practice as well as others expected to be of practical importance in the near future. Topics include: two-stage sampling procedures, repeated significance testing, sequential (stochastic) approximation, decision theory in a sequential setting, and sequentially determined sampling designs. In addition, several issues of current importance in medicine are discussed, as well as those of particular importance in operations research. —B. Levin

3 points. Hours to be arranged.

Statistics W 4143y **Theory and Analysis of Lifetime Data**

Survival distributions, types of censored data, estimation for various survival models, nonparametric estimation of survival distributions and related functions, comparison of two or more survival distributions, the proportional hazard and accelerated lifetime models for covariate data, regression analysis with lifetime data. —S. H. Lo

Prerequisites: Statistics G4107 or the equivalent.

3 points. Hours to be arranged.

Statistics-IEOR STI W 4150x, y **Introduction to Probability and Statistics**

Fundamentals of probability theory and statistical inference used in engineering and applied science. Probabilistic models, random variables, useful distributions, expectations, law of large numbers, central limit theorem. Statistical inference: point and confidence interval estimation, hypothesis tests, linear regression.

Prerequisite: A working knowledge of calculus.

3 points. x: M 6:00-8:30 —D. Alemayehu

y: Tu 4:10-6:30 —G. Gallego

THEATRE

230 Milbank Hall

854-2079, 2080

Adjunct Associate Professor and Director of the Minor Latham Playhouse:
Elizabeth Swain (Acting Chair)

Adjunct Professor: Paul Berman

Adjunct Assistant Professors: Elizabeth Covey, Mary Louise Geiger, Ann McDonough, Gregor Paslawsky, Neal Ann Stephens

Other officers of the University offering Barnard courses

Professor: Andrei Serban

The Theatre Department offers the student three tracks for concentration: Performance (Acting and Directing), Design and Technical Theatre, and Critical and Historical Studies. Within the context of Barnard’s liberal arts program the student is provided with the opportunity to develop a strong intellectual and artistic approach to the work. Although the department offers a Theatre History sequence, an Acting and Directing sequence and a Design and Technical Theatre sequence, additional courses in Dance, Art History, Literature, Music, and Dramatic Literature are to be undertaken outside the department.

The liberal arts experience is of great importance to the student who must learn to analyze texts, research historical, social and cultural contexts and make critical decisions, all of which lend to the artistic rendering of a play.

Students will perform in works in the Marion Victor Studio as part of class work and projects, and in larger productions serving the university community in the Minor Latham Playhouse.

All theatre majors will have responsibilities relating to major productions in the areas of acting, design, technical work or dramaturgy.

REQUIREMENTS FOR THE MAJOR

Students intending to major in Theatre should consult with the chair in their sophomore year to plan a program.

Required Courses

ETR BC 3131	<i>History of the Theatre: Greeks to Shakespeare</i>
ETR BC 3132	<i>History of the Theatre: Shakespeare to the 19th Century</i>
ETR BC 3133	<i>History of the Theatre: Modern Period</i>

Three courses in dramatic literature as set forth below:

ENG BC 3163 or BC 3164	<i>Shakespeare</i>
------------------------	--------------------

One course selected from the following:

CLL V 3123	<i>Classical Literature: Greek Drama and Its Influences</i>
GRE V 3305	<i>Tragedy</i>
ENG BC 3169	<i>English Drama: 900-1645</i>
ENG BC 3186	<i>Modern Drama</i>
ENG BC 3163 or ENG BC 3164	<i>Shakespeare</i>
ETR BC 3134	<i>Seminar on Contemporary British Political Theatre</i>
ETR BC 3135	<i>Seminar on 19th-Century Social Drama</i>
ETR BC 3136	<i>Seminar on Shakespeare in Performance</i>
ETR BC 3137	<i>Seminar on Restoration and 18th-Century Drama</i>
THR BC 3140	<i>Seminar on Women in Theatre</i>
ETR BC 3138	<i>Seminar on American Political Drama</i>

THEATRE

FRE BC 3039	<i>Twentieth Century French Theatre</i>
GER BC 3018	<i>Schiller and Kleist</i>
GER BC 3061	<i>Seminar: Faust</i>
ITA V 3641	<i>Italian Theatre in the Renaissance</i>
SPA BC 2018	<i>Comedies of García Lorca and Others</i>
SPA BC 3110	<i>An Introduction to Spanish Theatre</i>
THR BC 3140	<i>Seminar: Women in Theatre</i>

(Other courses in dramatic literature may be substituted with permission of the chair.)

One course from among ETR BC 3134 *Seminar on Contemporary British Political Theatre*, ETR BC 3135 *Seminar on 19th-Century Social Drama*, ETR BC 3136 *Seminar on Shakespeare in Performance*, or THR BC 3140 *Seminar: Women in Theatre*, or other seminars in dramatic literature.

Six additional courses to be chosen in consultation with the departmental adviser from the following:

THR BC 3001	<i>Acting I: Introduction to Acting</i>
THR BC 3002	<i>Acting II: Mask</i>
THR BC 3003	<i>Acting III: Clown</i>
THR BC 3004	<i>Acting IV: Beginning Scene Study</i>
THR BC 3005	<i>Acting V: Advanced Scene Study</i>
THR BC 3006	<i>Acting VI: Problems in Style</i>
THR BC 3120	<i>Stagecraft</i>
THR BC 3131	<i>Basic Design for the Theatre</i>
THR BC 3132	<i>Scenic Design</i>
THR BC 3133	<i>Costume Design</i>
THR BC 3134	<i>Lighting Design</i>
THR BC 3201	<i>Directing I</i>
THR BC 3202	<i>Directing II</i>
THR BC 3500	<i>Special Studies in Theatre</i>
ARS BC 3031x	<i>Imagery and Form in the Arts</i>
ENG BC 3113	<i>Dramatic Writing</i>
ENG BC 3121	<i>The Uses of Speech</i>
ENG BC 3124	<i>Oral Interpretation of Dramatic Literature</i>
DAN BC 2561	<i>Anatomy for the Dancer and Technique</i>
DAN BC 2562	<i>Movement Analysis and Technique</i>

(Other courses pertinent to study of theatre-related subjects may be substituted with the permission of the chair.)

The senior theatre major must complete a semester-long thesis course, either in the area of Performance, or within the areas of History, Dramaturgy, Criticism.

THR BC 3997	<i>Senior Project: Performance</i>
THR BC 3998	<i>Thesis Course in History, Dramaturgy, Criticism</i>

All students wishing to take acting courses above Acting I must audition once a semester for advice and placement.

COURSES OF INSTRUCTION

THR BC 3001x, y

Acting I: Introduction to Acting

An introduction to the process of acting. Development of the actor's instrument focusing on the body, voice, the senses and the imagination. Classes will consist of physical exercises, games, theatre exercises, improvisation, discus-

sion and presentation of assignments.

3 points.

x: Sec. 1 Tu Th 10:00-11:50 —Instructor to be announced.

Sec. 2 Tu Th 12:00-1:50 —G. Paslawsky

Sec. 3 Tu Th 2:10-4:00 —Instructor to be announced.

Sec. 4 M W 10:00-11:50 —A. McDonough

Sec. 5 M W 12:00-1:50 —A. McDonough

y: Sec. 1 Tu Th 12:00-1:50 —G. Paslawsky

Sec. 2 M W 10:00-11:50 —A. McDonough

Sec. 3 M W 12:00-1:50 —A. McDonough

2 additional hours to be arranged.

THR BC 3002x, y

Acting II: Mask

Continuing the development of skills acquired in Acting I. The focus is on acting as a process of discovery. The mask is used as a tool to free the actor physically, vocally and psychologically. Classes consist of increasingly structured improvisations developing character work and ensemble.

—Staff

Prerequisite: Acting I and/or placement audition.

3 points. Sec. 1 M W 10:00-11:50 —Staff

x only: Sec. 2 Tu Th 2:10-4:00 —Staff

y only: Sec. 3 Tu Th 10:00-11:50 —G. Paslawsky

THR BC 3003x

Acting III: Clown

A development of the acting process using the European clown tradition. Through the discovery of a clown persona, students will explore truth and spontaneity with other actors and an audience. —G. Paslawsky

Prerequisite: Acting II and/or placement audition.

Prerequisites or corequisites for non-majors: ETR BC 3131, 3132, 3133, or the equivalent.

3 points. Tu Th 10:00-11:50 plus 2 additional hours to be arranged.

THR BC 3004x

Acting IV: Beginning Scene Study

Development of the actor's ability to live truthfully, moment to moment, under the imaginary given circumstances of a text. Classes consist of developing the actor's concentration, emotional preparation, use of creative fantasy and personalization as applied to scene work. Considerable time is spent outside class on preparation for exercises and rehearsals for scene presentations. —Staff

Permission of the instructor required.

3 points. M W 12:00-1:50 plus 2 additional hours to be arranged.

THR BC 3005y

Acting V: Advanced Scene Study

Development of the actor's ability to live truthfully, moment to moment, from the point of view of the character, under the imaginary given circumstances of a play. Classes consist of scene work emphasizing building a character and creating a role. Five scene assignments with outside preparation and rehearsal will be required. —Staff

3 points. M W 12:00-1:50 plus two additional hours to be arranged.

THR BC 3006y

Acting VI: Problems in Style

Course designed to broaden knowledge of periods, writers, works, genres, and theories through rehearsal and performance, oral reports, textual analyses, and investigation of cultural and aesthetic background of specific works. The subject for spring of 1992 will be Shakespeare. —E. Swain

Permission of the instructor required.

3 points. Tu Th 10:00-11:50 plus 2 additional hours to be arranged.

ETR BC 3131x

History of Theatre:

The Greeks to the Italian Renaissance

Study of theatre literature and theatre practice in the Greek and Roman periods through the Middle Ages and the Italian Renaissance. —P. Berman, E. Swain

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55

H

ETR BC 3132y

History of Theatre:

Shakespeare to the Nineteenth Century

Study of theatre literature and theatre practice from the Elizabethan period to the nineteenth century. Focus includes Shakespeare, the English Restoration, Spanish, French, and German drama of the period. —P. Berman, E. Swain

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55

H

ETR BC 3133x

History of Theatre: Modern Period

Major developments of the modern period in drama, scenic approaches, stage directing and acting. Topics include the work of Stanislavsky, Meyerhold, Artaud, Brecht, Grotowski and Brook, the innovations of Craig, Appia and Copeau, and the drama of Chekov, Ibsen, Strindberg, Shaw and other playwrights up to modern times. —P. Berman, E. Swain

Enrollment limited to 40 students.

3 points. Not offered in 1992-93.

H

THR BC 3120x

Stagecraft

Introduction to theatrical practices with an emphasis on production organization, set construction, lighting, costumes and sound. A course in fundamentals which will expand the appreciation of the creative process in the theatre. Students will apply this knowledge through labo-

ratory participation in departmental productions.

—N. Stephens

Open to theatre majors or prospective majors, and by permission of the instructor.

3 points. Tu Th 10:35-11:50

Laboratory hours to be arranged.

THR BC 3131y

Basic Design for the Theatre

The basic concerns, methods, and tools of the designer, focusing on problems of conceptualization, the designer's encounter with the text, and the translation of concept into plastic stage image in sets, costume, and lights. The course includes guest lecturers from professional theatre.

—N. Stephens

3 points. Tu Th 10:35-11:50

THR BC 3132x

Scenic Design

Study and practice of the basic elements of scenic design for the realization of dramatic texts in performance. The course includes guest lecturers from the professional theatre.

3 points. Not offered in 1992-93.

THR BC 3133y

Costume Design

Study and practice of the basic elements of costume design for the realization of dramatic texts in performance. The course includes guest lecturers from the professional theatre. —E. Covey

3 points. M 4:00-6:30

THR BC 3134x

Lighting Design

Study and practice of the basic elements of lighting design for the realization of dramatic texts in performance. The course includes guest lecturers from the professional theatre. —M. Geiger

3 points. M 4:00-6:30

THR BC 3500y

Special Studies in Theatre

Master class in acting for theatre majors.

—A. Serban

Permission of the instructor required.

4 points. Hours to be arranged.

ETR BC 3134x

Seminar on Contemporary British Political Theatre

An examination of plays and production approaches employed by the post-1968 British political theatre movement focusing on such authors as Bond, Hare, Edgar, Poliakoff, Keefe and Churchill. Antecedents such as Shaw and Brecht will be discussed to provide a broader context in

order to explore methodology and the social climate conducive to political theatre. —E. Swain
Prerequisite: One semester of theatre history or permission of the instructor. Alternate years.

4 points. Offered in 1993-94.

H

ETR BC 3135y

Seminar on 19th-Century Social Drama

Late 19th-century social drama in the context of earlier melodrama. The shifting relationship between the visual and the verbal in the theatre and its implications for social and theatrical change. Playwrights include Jerrold, Scribe, Mowatt, Taylor, Robertson, Ibsen, Pinero, Wilde, Shaw, and Robins. —P. Denison

4 points. Not offered in 1992-93.

H

ETR BC 3136y

Seminar on Shakespeare in Performance

The dramatic text as theatrical event. Differing performance spaces, production practices, and cultural conventions promote differing modes of engagement with dramatic texts. We will explore Shakespeare's plays in the context of actual and possible performances from the Renaissance to the 20th century. —P. Denison

Enrollment limited to 20 students.

4 points. Not offered in 1992-93.

H

ETR BC 3137y

Seminar on Restoration and 18th-Century Drama

Performance conventions, dramatic techniques, and cultural contexts from 1660-1800. Playwrights include William Wycherley, Aphra Behn, Mary Pix, Susannah Centlivre, George Etherege, William Congreve, John Gay, and Richard Sheridan.

—P. Denison

Enrollment limited to 20 students.

4 points. Tu 4:10-6:00

ETR BC 3138y

Seminar on American Political Drama

Explores selected American political dramas from different periods, examining developments in style, structure, production, purpose, and sophistication. Looks at theatrical responses to the Depression, the McCarthy hearings, the Vietnam War, the Civil Rights movement, feminism, and AIDS. Playwrights include Gertrude Stein, Clifford Odets, Arthur Miller, Lorraine Hansberry, Megan Terry, Maria Irene Fornes, David Hwang, and David Rabe. —B. Gross

4 points. W 4:10-6:00

THR BC 3140x**Seminar on Women in Theatre**

The course will explore different images of women as presented in dramatic literature of various countries and historical periods, and of women's evolving roles as practitioners of theatre: as playwrights, directors, actresses, etc. —E. Swain

Enrollment limited to 15 students.

4 points. W 4:10-6:00

THR BC 3201y**Directing I**

Script analysis for the director and the examination of texts according to structure and metaphor, within a theoretical framework. From this study the student proceeds to an exploration of the director's production concept: its formulation through analysis and rehearsal process, and realization in theatrical terms. The works of seminal directors and theorists such as Stanislavsky, Artaud, Meyerhold and Brecht will be dealt with in depth. —P. Berman

Prerequisite: THR BC 3001, THR BC 3120.

3 points. Tu Th 12:00-1:50

THR BC 3202x**Directing II**

An advanced course concentrating on problems of style and work with the playwright. The student will direct a play for public performance at the end of the semester. —P. Berman

Prerequisite: THR BC 3201 or permission of the instructor.

3 points. Tu Th 12:00-1:50

THR BC 3997x, y**Senior Project: Performance**

A performance in the areas of acting (in a one-woman show), directing or designing a play. The student will demonstrate proficiency in her area. A paper demonstrating research performed and process evolved will also be required. —P. Berman

Enrollment limited to senior Theatre majors.

3 points. Hours to be announced.

THR BC 3998x, y**Thesis Course in History,
Dramaturgy, Criticism**

The student will write a research paper of substantial length encompassing a historical or critical event in the history of theatre. The student will choose a specific subject in terms of playwriting, history, dramaturgy and style, and relate it to the political, philosophical and social events of an era.

—P. Berman

Enrollment limited to senior Theatre majors.

Prerequisite: THR BC 3120.

3 points. Hours to be announced.

This program is supervised by the Committee on Urban Affairs:

Professor of Political Science: Demetrios Caraley (Chair)

Associate Professor of Urban Affairs and Political Science: Ester Fuchs (Director)

Professor of Anthropology: Paula G. Rubel

Professor of Economics: Deborah D. Milenkovitch

Assistant Professor of History: David Farber

The purpose of the Urban Affairs Program is to develop understanding of the basic institutions, problems and achievements of city life.

REQUIREMENTS FOR THE MAJOR

A major in Urban Affairs can be taken only in conjunction with a concentration in one of the regular departments.

In order to major in Urban Affairs, a student must fulfill the following requirements:

A) Eight courses distributed as follows:

One course dealing primarily with urban subject matter in each of three of the following departments from among those courses indicated:

Anthropology V 3100	<i>Anthropology of Urban Life</i>
Economics W 3228	<i>The Urban Economy</i>
History W 4673 or W 4674	<i>American Urban History</i>
Political Science W 3313	<i>American Urban Politics</i>
Sociology V 3265	<i>Minorities and Ethnic Groups in American Life</i>
or Sociology V 3324	<i>Urban Sociology</i>

One course dealing primarily with urban subject matter from a list approved by the committee in one other department such as art history, architecture, English, psychology, urban planning, environmental science or a social science statistics course. The list of specific courses and of the departments that offer specializations for urban affairs majors is available at the office of the Program Representative.

In the junior year:

Urban Affairs Junior Colloquia:

V3545 *Shaping of the Modern City*

V3546 *Contemporary Urban Problems.*

In the senior year:

research seminar in the department of concentration

B) The satisfactory completion of not fewer than five courses in the department of concentration and the writing in that department of a senior thesis on an urban topic.

There is no minor in Urban Affairs.

COURSES OF INSTRUCTION

UAF BC 3535x

Colloquium in Urban Administration and Management

Processes of administration and management of cities. Executive leadership, decision-making bureaucracy, budgeting and personnel. —J. Bellush

Prerequisite: Political Science BC 3001 or V 3313, or the equivalent. Enrollment limited to 20 students. 4 points. M 2:10-4:00

S

UAF BC 3537x

Workshop in Urban Administration and Management

Resources of New York City utilized to gain first-hand experience of administrative and managerial processes through unpaid internship of 8-10 hours per week. —J. Bellush

Corequisite: Urban Affairs BC 3535x.

2 points.

Urban Studies UST V 3545x-V 3546y

Junior Colloquium in Urban Affairs

Autumn Term: Shaping of the Modern City. An introduction to the historical process and social consequences of urban growth. Reading and discussion focus on origin and current status of urban problems. —A. Weiss

4 points. Tu 11:00-12:50

S

Spring Term: Contemporary Urban Problems. Problems that currently afflict urban areas and assessment of attempted solutions. Problems of urban development, housing, education, poverty, transportation, and health. —E. Fuchs

Permission of the instructor required. Enrollment limited to 15-20 students.

4 points. W 9:10-10:50

S

Political Science-Sociology PSS V 3994x-V3995y

New York Area Undergraduate Research Program

An ongoing program that develops an urban research project from conceptualization to final report. Using New York City as a research laboratory, students choose different topics each year for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists. —J. Russell

Prerequisite: Junior or senior standing. Enrollment limited to 10-15 students, selected by application only. Participation is for two terms.

4 points. Tu 2:10-4:00

203 Barnard Hall

854-2108

This department is supervised by the Committee on Women's Studies:

Professor of Psychology: Lila Braine

Director of the Center for Research on Women: Leslie Calman

Assistant Professor of Sociology: Lynn Chancer

Assistant Professor of Economics: Maria Crummett

Professor of Classics: Helene Foley

Assistant Professor of English: Brenda Gross

Professor of Women's Studies (Columbia): Martha Howell

Professor of English: Maire Jaanus

Professor of Women's Studies and Art History: Natalie B. Kampen (Chair)

Assistant Professor of Physics: Laura Kay

Professor Emerita of Sociology: Mirra Komarovsky

Associate Professor Women's Studies: Afsaneh Najmabadi

Adjunct Professor of Sociology: Theresa Rogers

Professor of History: Rosalind Rosenberg

Director of the Education Program: Susan R. Sacks

Lecturer in Spanish: Flora Schiminovich

Assistant Professor of Religion: Judith Weisenfeld

Professor of Spanish: Marcia Welles

Student Members: Women's Studies Majors, class of '93

Women's Studies is an interdisciplinary department for students who wish to explore the basic questions raised by recent scholarship on gender and its relation to other systems of cultural/political difference: race, class, ethnicity, and sexual orientation. Some of the issues touched on in these fields are: questions about the distribution of power, work and resources in the U.S. and elsewhere; the symbolic representation of identity in literature, religion and art; the redefinition of "history" through the study of gender, ethnicity, race, and class; the historical place(s) of lesbian lives; the notion of cultural "roles" for women and men; and the shape of political movement which take gender as an organizational basis.

Early in their sophomore year, students interested in the major should consult the chair or any one of the faculty members teaching Women's Studies courses for a list of advisers and required courses in the disciplines of concentration.

Students also have the option of electing a joint or double major and have access to Columbia graduate courses, since some cover special areas not otherwise available at Barnard.

Complementing the Women's Studies Program, the Barnard Center for Research on Women maintains an extensive and expanding resource collection on women's issues. The Center also sponsors a variety of lectures and discussions devoted to the exploration of the relationship of feminist studies to traditional scholarship.

REQUIREMENTS FOR THE MAJOR

Majors in the department are trained in interdisciplinary research skills and focus their studies in one of two areas of concentration: humanities or social sciences/history. The major in Women's Studies is taken in conjunction with study in one of the other departments.

The requirements for the major are 14 courses to be distributed as follows:

WMS BC 3111	<i>Feminist Texts I: Wollstonecraft to Beauvoir.</i>
WMS BC 3113	<i>Feminist Texts II: Beauvoir to the Present</i>
WMS V 3112	<i>Colloquium in Feminist Theory</i>
WMS V 3521-3522	<i>Senior Research Seminar</i>

Four other courses in Women's Studies (see listing below), three within the student's area of concentration (humanities or social science/history) and one in the other area (V 1001 may count in either area); and

Five additional courses in the department within the student's area of concentration. One of these five courses may be selected from a closely related department in the student's area of concentration.

The thesis, Women's Studies V 3521-3522, provides an opportunity for senior majors to engage in original, interdisciplinary research and to bring to bear the theoretical emphasis of feminist scholarship on a particular area of empirical investigation. Further, in the senior seminar, majors have the opportunity to discuss methodological issues and problems of research in a directed and supportive environment.

Special projects using the city's resources may be developed into term papers or incorporated into the senior essay. An extensive project under the sponsorship of at least two faculty members may be offered for course credits as Women's Studies BC 3599, *Independent Research*.

The Combined Major Option

The combined major option includes seven courses in Women's Studies to be distributed as follows:

WMS BC 3111	<i>Feminist Texts I</i>
WMS BC 3113	<i>Feminist Texts II</i>
WMS V 3112	<i>Colloquium in Feminist Theory</i>

Four other courses in Women's Studies (see listing below), three within the student's area of concentration (humanities or social sciences/history) and one in the other area (V 1001 may count in either area).

The requisite number of courses in the combining field, to be determined by the chair of that department or program; and

Two terms of a senior seminar to be taken in one of the fields combined in the major. The senior essay shall be designed to integrate the two areas of inquiry.

The combined major should be planned early in the sophomore year.

No minor is offered in Women's Studies.

COURSES OF INSTRUCTION

WMS V 1001x

Women and Men: Power, Politics, Poetry

An introduction to the ways in which femininity and masculinity have been imagined in literature and constructed in culture. The new interdisciplinary scholarship on gender will be presented in works of literature, films, social science, and current theory. —A. Grossmann

3 points. Tu 2:10-4:00. Discussion Th 2:10-4:00 H

Anthropology-Women's Studies ANW V 3039y

Women in Third World Development

Comparison of women's social and economic roles in both traditional and modernizing societies. Women's roles in the family, community and class structure will be discussed through a detailed examination of a series of ethnographies. —J. Mencher
Prerequisite: An introductory Anthropology or Women's Studies Course or permission of the instructor.

3 points. W 2:10-4:00

S

WMS BC 3111x,y

Feminist Texts I: Wollstonecraft to Beauvoir

The important contributions to the elaboration of feminist thought in the West evaluated through critical discussion. Analysis of works by Mary Wollstonecraft, J.S. Mill, A. Kollontai, Zora Neale Hurston, Emma Goldman, C.P. Gilman, Simone de Beauvoir and others in an attempt to discover the roots of the contemporary feminist movement. *Permission of the instructor required. Enrollment limited to 20 students.*

4 points. x: M 2:10-4:00 —A. Najmabadi
y: W 2:10-4:00 —Staff

S

WMS BC 3113x,y

Feminist Texts II: Beauvoir to the Present

Contemporary issues in feminist thought. A review of the theoretical debates on sex roles, feminism and socialism, psychoanalysis, language and cultural representations.

Permission of the instructor required. Enrollment limited to 20 students.

4 points. x: M 4:10-6:00 —B. Gross
y: M 2:10-4:00 —A. Najmabadi

H

WMS V 3112x

Colloquium in Feminist Theory

An exploration of the relationship between new feminist theory and feminist practice both within the academy and in the realm of political organizing. —N. Kampen

Prerequisite: Major Texts I or II and permission of the instructor.

4 points. Tu 10:00-12:00, Th 10:00-11:00

WMS BC 3115x

Workshop in Women's Organizations

An optional course co-requisite with V 3112x. An opportunity to investigate feminist theory in practice through involvement in NYC organizations.

—N. Kampen

Permission of the instructor required and co-registration with WMS V 3112. Not open to Columbia students.

2 points.

WMS BC 3117x

Women and Film

A critical interpretation of film from a feminist perspective and exploration of the relationship of gender to the language of film. —Staff

3 points. M W 4:10-6:30

H

WMS V 3118y

The Image of African American Women in Film from 1900 to the Present: From Mammies to Matriarchs

A historical examination of African American women in U.S. film, the goal of which is to

demonstrate relationships among race, gender and class in "entertainment" imagery. —D. Royals
3 points. Tu Th 4:10-6:30

S

WMS BC 3120x

The Invisible Woman in Literature: The Lesbian Literary Tradition

An interdisciplinary exploration of the lesbian experience. —E. Weisen

4 points. Tu 4:10-6:00

H

Art History-Women's Studies AWS BC 3123y

Women and Art

A discussion of the methods necessary to analyze visual images of women in their historical, racial and class contexts, and to understand the status of women as producers, patrons and audiences of art and architecture. —N. Kampen

3 points. Tu Th 10:35-11:50

WMS BC 3501y

Comparative Feminisms

Exploration of commonalities and differences among feminist movements in Asia, Latin America, the Middle East, and Africa.

3 points. *Not offered in 1992-93.*

WMS V 3502y

Women and Science

History and politics of women's involvement with science. Women's contribution to scientific discovery in various fields, accounts by women scientists, engineers, and physicians, issues of science education. Feminist critiques of biological research and of the institution of science. —L. Kay

Enrollment limited to 20. Permission of the instructor required.

4 points. Tu 4:10-6:00

S

WMS V 3521x, 3522y

Senior Seminar

Individual research in Women's Studies conducted in consultation with the instructor. The result of each research project submitted in the form of the senior essay, and presented to the seminar. —N. Kampen, T. Szell

Prerequisites: BC 3111, BC 3112, or BC 3113 or permission of the instructor. Enrollment limited to senior majors.

4 points. Th 12:00-2:00

WMS BC 3599x,y

Independent Research

3 or 4 points. *Hours to be arranged. Instructor to be arranged.*

English-Women's Studies EWS BC 3144y
Minority Women Writers in the United States
 Literature of 20th century minority women writers in the United States, with particular emphasis on works by Asian, Black, Hispanic, and Native American women. The historical and cultural as well as the literary framework. —Q. Prettyman
 3 points. Tu Th 2:40-3:55 H

WOMEN'S STUDIES COURSES IN OTHER DEPARTMENTS AND PROGRAMS

Students should consult the departmental and program listings for course descriptions.

Anthropology-Asian Civilizations AAS V 3501y
Women in Japanese Society
 —K. Ikeda

Anthropology ANT V 3830y
**Colloquium: Male and Female;
 Monotheisms and Polytheisms**
 —L. Combs-Schilling. *Not offered in 1992-93.*

Anthropology ANT V 3712x
**Lines that Divide: Race, Class, and Gender
 in Contemporary American Society**
 —K. Newman

Anthropology ANT G 4129x
**Woman and Power: Indian Images
 of the Feminine**
 —V. Dehejia

Classical Civilizations CLC V 3158y
Women in Antiquity
 —H. Foley

East Asian EAS V 3635x
**The Female Voice in Japanese Literature,
 Religion and Culture**
 —B. Ruch

East Asian EAS V 3650x
The Family in Chinese History
 —R. Hymes

Economics ECO BC 2010x
Sex, Discrimination, and the Division of Labor
 —C. Conrad

English ENG BC 3140x
Explorations of Black Literature: 1460-1890
 —Q. Prettyman

English ENG BC 3140y
Women and the Profession of Letters
 —J. Basker

English BC 3997x, 3998y
Senior Seminars in Literature
3998y
 1. **The Middle Ages: Medieval Heroines**
 —T. Szell
 2. **The Renaissance: Gender in the Age of
 Shakespeare**
 —E. Ryding

English ENG C 3773x
American Women Poets
 —P. Wal

English ENG W 3960x
Men and Women in Victorian Fiction
 —C. Bonica

German GER W 3448x
Women in 19th Century Literature
 —P. Perdy

History HIS BC 3427x
Women, Class and Culture
 —D. Valenze

History HIS BC 3074y
History of Sexuality
 —B. Bailey. *Not offered in 1992-93.*

History HIS W 3115x
History of Women in America, 1700-1900
 —E. Blackmar

History HIS W 3946x
**Social History of 20th-Century Housing and
 Homelife**
 —E. Blackmar

History HIS BC 3082x
American Women in the 20th Century
 —R. Rosenberg

Linguistics LIN BC 3052y
Gender Systems
 —J. Malone. *Not offered in 1992-93.*

Philosophy PHI BC 3147y
Philosophical Issues of Feminist Theory
 —S. Larson

Political Science POS V 3328y
Women and American Politics
 —Instructor to be announced.

Political Science POS BC 3440x
**Colloquium on Women in
 Western Political Thought**
 —L. Calman. *Not offered in 1992-93.*

WOMEN'S STUDIES

Psychology PSY BC 3152y
Psychological Aspects of Human Sexuality
—W. McKenna

Psychology PSY BC 3378x
Females and Males: A Psychological Perspective
—C. Williams

Psychology PSY BC 2371x
Psychology and Women
Not offered in 1992-93.

Religion HIR V 3804y
Black Women's Religious Experiences
—J. Weisenfeld

Sociology SOC V 3310x
Gender and Deviance
—L. Chancer

Sociology SOC BC 3115y
Feminist Theory
—L. Chancer

Sociology SOC V 3303y
Female and Male: A Sociological Perspective
—M. Komarovsky

Sociology SOC V 3555y
Sociology of Family Institutions
—L. Chancer. *Not offered in 1992-93.*

Sociology SOC V 3200y
Gender, Class and Race
—L. Chancer

Spanish SPA BC 3203x
20th Century Women Poets of the Americas: Kindred Voices
—A. Rayo

Spanish SPA BC 3126x
Archetypal Patterns in Contemporary Women's Fiction
—M. Servodidio

Spanish W 3500y
Contemporary Spanish Women Writers
—G. Sobejano

Spanish and Portuguese SPA W 3468y
Special Topics in Spanish America: Women Writers of Latin America
—J. Franco

Theatre THR BC 3140x
Women in Theatre
—E. Swain

FIRST-YEAR SEMINAR

First-year students interested in Women's Studies may wish to select their First-year Seminar from the Women in Literature and Culture cluster. See page 147.

RECOMMENDED COURSES OF RELATED INTEREST

These courses do not count for major credit, but do focus in part on women's issues and issues of gender.

Anthropology ANT V 3115x
Peasants, Class and Conflicts in Central America
—E. Crandon

Education EDU BC 2032x
Contemporary Issues in Education
—S. Sacks

English ENG BC 3140y
The Body in Modern Literature and Thought
—M. Jaanus. *Not offered in 1992-93.*

History HIS BC 3066y
America in the Gilded Age
—M. Carnes. *Not offered in 1992-93.*

History HIS BC 3450y
History of Childhood in America
—M. Carnes. *Not offered in 1992-93.*

History HIS BC 3479x
America in the 1960s
—D. Farber. *Not offered in 1992-93.*

Political Science POS BC 3007x
Modern Political Movements
—L. Calman

Political Science POS BC 3013x, 3014y **Political Theory**
—D. Dalton

**COURSES OFFERED AT
REID HALL IN PARIS**

The following courses are offered at Reid Hall in Paris. For additional information about the programs available, consult the Reid Hall Programs Bulletin available in 412 Lewisohn Hall.

***Women's Studies H 3450y*
Contemporary French Thought
and Feminist Theory (Seminar)**

Examines how feminist thought deals with contemporary conceptions of identity. Through a consideration of literature by women authors, the course identifies redefinitions of gender difference.—M. Marini
4 points.

Women's Studies H 3550y

Women and Society in France:

History of Women from 16th to 20th Century

Through the study of literary and artistic texts, the relations between the body and writing are addressed. Two broad areas are investigated: (I) How does the body write? Literature is produced by bodies that are either male or female and that have specific biographical itineraries; (II) How is the body written? Readings from Sartre, Giraudoux, Beauvoir, Peignot, Santos, Cixous, Wittig, and others. —D. Godineau, N. Huston
3 points.

TRUSTEES OF BARNARD COLLEGE

Chairman

Helene L. Kaplan (Esq.)

Vice Chairmen

Marion P. Ames (Mrs. George J.)

William T. Golden

Helen P. McIntyre (Mrs. Randall P.)

Richard R. Shinn

Treasurer

Gedale B. Horowitz

Arthur G. Altschul, Trustee Emeritus

Lois M. Beekman (Ms.)

Grace G. Bowman (Mrs. Samuel A.)

Amy S. Cohen (Mrs. Saul Z.)

Carol Herman Cohen (Mrs.)

Elissa F. Cullman (Mrs. Edgar M., Jr.)

A. Carleton Dukess

Eleanor Elliott (Mrs. John, Jr.), Trustee Emerita

Joseph Flom (Esq.)

Ellen V. Futter

Sheila C. Gordon (Ms.)

Patricia Green (Mrs. S. William)

Glenn H. Greenberg

Marian S. Heiskell (Mrs.)

Joseph Hofheimer

Eugene R. McGrath

Robert E. Mnuchin

Sally F. Moore (Prof.)

Frank Newman

Donald A. Pels

Anna Quindlen (Ms.)

Mary Louise Reid (Mrs. Ogden R.)

Richard Reiss, Jr.

Patricia C. Remmer (Mrs. Eugene H.)

Marcella J. Rosen (Mrs.)

Arthur Ross

Susan W. Soros (Mrs.)

Michael I. Sovern, ex officio

Martha K. Stewart (Ms.)

Merryl H. Tisch (Mrs.)

Diana T. Vagelos (Mrs.)

Lynn Walker (Esq.)

Constance H. Williams (Mrs. Sankey V.)

William S. Woodside

Virginia B. Wright (Mrs. C. Bagley)

Faculty Representatives to the Board of Trustees

Professor Serge Gavronsky

Professor Rosalind Rosenberg

Student Representatives to the Board of Trustees

Michelle McCarthy

Inessa Onefater

THE FACULTY OF BARNARD COLLEGE

- Ellen V. Futter, 1980, President of Barnard College and Dean in the University
B.A., Barnard; J.D., Columbia; LL.D., Columbia; L.H.D., Amherst; LL.D., Hamilton
- Robert A. McCaughey, 1969, Vice President for Academic Affairs and
Dean of the Faculty and Professor of History
A.B., Rochester; M.A., North Carolina; Ph.D., Harvard
- Barbara S. Schmitter, 1957, Vice President and Dean for Student Affairs and Associate
Professor of Psychology
A.B., Nebraska; M.A., Columbia
- Lawrence J. Aber, 1981, Associate Professor of Psychology
B.A., Harvard; M.A., Ph.D., Yale
- Philip V. Ammirato, 1974, Professor of Biological Sciences
B.A., City College of New York; Ph.D., Cornell
- Howard Andrews, 1978, Adjunct Assistant Professor of Psychology
B.A., Richmond College; Ph.D., Rutgers
- Antonella Ansani, 1990, Assistant Professor of Italian
M.A., Laurea U. of Bologna; Ph.D., Yale
- Janis Ansley-Ungar, 1975, Senior Associate in Dance
B.F.A., Southern Methodist; M.A., Illinois
- Marina Astman, 1969, Professor of Russian
Ph.D., Columbia
- Regina Ayre, 1971, Lecturer in German
B.A., Sir George Williams College; M.A., Ph.D., Columbia
- Beth L. Bailey, 1989, Assistant Professor of History
B.A., Northwestern; M.A., Ph.D., U. of Chicago
- Randall Balmer, 1991, Associate Professor of Religion
B.A., Trinity; M.A., Trinity Divinity; M.A., Ph.D., Princeton
- Peter D. Balsam, 1975, Professor of Psychology
B.A., State University of New York at Stony Brook; M.A., Ph.D., North Carolina
- Linda Barrington, 1991, Assistant Professor of Economics
B.S., University of Wisconsin; M.S., Ph.D., University of Illinois
- James G. Basker, 1987, Associate Professor of English
A.B., Harvard; M.A., Cambridge; D. Phil., Oxford
- Christopher C. Baswell, 1984, Associate Professor of English
B.A., Oberlin; M.A., M. Phil., Yale; Ph.D., Yale
- David Allen Bayer, 1987-88; 1990, Associate Professor of Mathematics
B.A., Swarthmore; Ph.D., Harvard
- Sigrid Berka, 1990, Assistant Professor of German
Ph.D., U. of California at Santa Barbara
- Paul Berman, 1986, Adjunct Professor of Theatre
B.A., Queens; M.A., Hunter
- Joan S. Birman, 1973, Professor of Mathematics
A.B., Barnard; M.A., Columbia; Ph.D., New York University
- Ann Birstein, 1981, Adjunct Professor of English
B.A., Queens
- Irene T. Bloom, 1988, Associate Professor of Asian and Middle Eastern Cultures
B.A., Swarthmore; M.A., Ph.D., Columbia

THE FACULTY

- Vilma Bornemann, 1971, Associate in Spanish and Dean of Studies
A.B., Barnard; M.A., Columbia
- Peter M. Bower, 1986, Lecturer in Environmental Science
B.S., Yale; M.A., Queens College; M.P.H., Ph.D., Columbia
- Anne Boyman, 1979, Adjunct Assistant Professor of French
B.A., M.A., Ph.D., Toronto
- Lila Ghent Braine, 1974, Professor of Psychology
B.A., M.A., Ph.D., McGill
- Constance Brown, 1980, Lecturer in English
A.B., Barnard; M.A., Ph.D., Columbia
- André C. Burgstaller, 1977, Associate Professor of Economics
Licence, University of Geneva; M.A., Toronto; Ph.D., Columbia
- Leslie Calman, 1981, Lecturer in Political Science and Director of
the Barnard Center for Research on Women
A.B., Barnard; M.A., M. Phil., Ph.D., Columbia
- Demetrios Caraley, 1961, Professor of Political Science and Janet H. Robb Professor
of the Social Sciences
A.B., Ph.D., Columbia
- Mark C. Carnes, 1982, Associate Professor of History
B.A., Harvard; M.A., Ph.D., Columbia
- James Carter, 1981, Lecturer in Chemistry
B.A., Cornell; M.A., Ph.D., Michigan
- Lynn S. Chancer, 1990, Assistant Professor of Sociology
B.A., Princeton; Ph.D., City University of New York
- Sally Chapman, 1975, Ann Whitney Olin Professor of Chemistry
A.B., Smith; Ph.D., Yale
- Julia Chase, 1976, Associate Professor of Biological Sciences
A.B., Smith; Ph.D., Indiana
- Nathan M. Chu, 1988, Assistant Professor of Biological Sciences
B.A., B.S., Ph.D., University of California
- Catharine Randall Coats, 1991, Assistant Professor of French
B.A., Wesleyan; M.A., Boston College; Ph.D., University of Pittsburgh
- Constance Colby, 1972, Instructor in English
B.A., M.A., Michigan
- Peter Tracey Connor, 1991, Assistant Professor of French
B.A., University College-Dublin; M.A., Ph.D., University of California
- Cecilia A. Conrad, 1985, Assistant Professor of Economics
B.A., Wellesley; M.A., Ph.D., Stanford
- Catherine Cooper, 1992, Instructor in Religion
B.A., Wesleyan, M.T.S., Harvard Divinity
- James Crapotta, 1975, Lecturer in Spanish
B.A., Queens; M.A., Ph.D., Harvard
- Maria Crummett, 1987, Assistant Professor of Economics
B.A., Stanford; M.A., Ph.D., New School for Social Research
- Dennis G. Dalton, 1969, Ann Whitney Olin Professor of Political Science
A.B., Rutgers; M.A., Chicago; Ph.D., Columbia

- Elizabeth Dalton, 1965, Professor of English
A.B., California; M.A., Ohio State; Ph.D., Columbia
- Flora S. Davidson, 1973, Lecturer in Political Science and Associate Dean of the Faculty
A.B., Barnard; M.Phil., Ph.D., Columbia
- Michael X. Delli Carpini, 1987, Assistant Professor of Political Science
B.A., M.A., Pennsylvania; Ph.D., Minnesota
- Patricia D. Denison, 1990, Lecturer in English
B.A., University of Maryland; Ph.D., University of Virginia
- Hubert Doris, 1957, Professor of Music
A.B., Harvard; M.A., Columbia
- Patricia L. Dudley, 1959, Professor of Biological Sciences
A.B., M.A., Colorado; Ph.D., Washington
- Sharon Everson, 1981, Senior Associate in Physical Education
B.S., Brooklyn; M.Ed., Temple
- David Farber, 1989, Assistant Professor of History
B.A., U. of Michigan; M.A., Ph.D., U. of Chicago
- Duncan K. Foley, 1977, Professor of Economics
B.A., Swarthmore; Ph.D., Yale
- Helene Peet Foley, 1979, Ann Whitney Olin Professor of Classics
B.A., Swarthmore; M.A.T., M.A., Yale; Ph.D., Harvard
- Jean E. Follansbee, 1979, Senior Associate in Physical Education
B.S., State University of New York at Cortland; M.S., Massachusetts
- Catherine Anne Franke, 1990, Instructor in French
B.A., Barnard; M.A., Université de Paris
- Richard M. Friedberg, 1968, Professor of Physics
A.B., Harvard; M.A., Ph.D., Columbia
- Ester R. Fuchs, 1980, Associate Professor of Political Science
B.A., Queens; M.A., Brown; Ph.D., Chicago
- William Alan Gabbey, 1992, Professor of Philosophy
B.S., Ph.D., Queen's University of Belfast
- Serge Gavronsky, 1960, Professor of French
A.B., M.A., Ph.D., Columbia
- Renée Geen, 1956, Professor of French
A.B., Brooklyn; M.A., Wisconsin; Ph.D., Columbia
- Sandra Genter, 1961, Professor of Dance
A.B., Wisconsin; M.A., Columbia
- Priscilla Gilmore, 1986, Associate in Physical Education
B.A., Pennsylvania; M.A., Columbia
- Eileen Agard Glickstein, 1988, College Librarian
B.A., American University; M.A., New York University; M.L.S., Columbia
- Mary Gordon, 1988, Millicent C. McIntosh Professor of Writing
B.A., Barnard; M.A., Syracuse
- Ellen M. Graff, 1983, Assistant Professor of Dance
B.S., California State University; M.A., California School of Professional Psychology;
Ph.D., New York University

THE FACULTY

- Christopher J. Grandy, 1987, Assistant Professor of Economics
B.A., San Francisco State; M.A., Ph.D., University of California at Berkeley
- Brenda Gross, 1989, Assistant Professor of English
B.A., Dartmouth; M.A., New York University; Ph.D., Graduate Center of CUNY
- Richard F. Gustafson, 1965, Ann Whitney Olin Professor of Russian
A.B., Yale; Ph.D., Columbia
- Danielle Haase-Dubosc, 1962, Associate Provost and Director of Reid Hall Program
A.B., Barnard; M.A., Ph.D., Columbia
- Timothy Halpin-Healy, 1989, Assistant Professor of Physics
A.B., Princeton; Ph.D., Harvard
- John Stratton Hawley, 1986, Professor of Religion
A.B., Amherst; M.Div., Union Theological Seminary; Ph.D., Harvard
- Jose A. Hernandez, 1989, Lecturer in Spanish
B.A., Clark; Ph.D., Yale
- Paul Hertz, 1979, Professor of Biology
B.S., Stanford; M.A., Ph.D., Harvard
- Larry Heuer, 1990, Assistant Professor of Psychology
B.A., U. of Minnesota; M.S., Ph.D., U. of Wisconsin at Madison
- Kathryn Humphreys, 1987, Assistant Professor of English
A.B., Princeton; M.A., Ph.D., Cornell
- Keiko Ikeda, 1991, Assistant Professor of Asian and Middle Eastern Cultures
B.A., Kobe College, Japan; M.A., Ph.D., University of Illinois
- Maire Jaanus, 1968, Professor of English
A.B., Vassar; Ph.D., Harvard
- Olympia T. Jebejian, 1969, Associate in Chemistry
B.A., M.S., American University of Beirut
- Isabelle Jouanneau-Fertig, 1987, Associate in French
B.A., M.A., Université de Paris
- Peter H. Juviler, 1964, Professor of Political Science
B.E., M.E., Yale; M.A., Ph.D., Columbia
- Natalie B. Kampen, 1988, Professor of Woman's Studies and Art History
B.A., M.A., Pennsylvania; Ph.D., Brown
- Mara Kashper, 1989, Associate in Russian
M.A., Leningrad State University
- Laura E. Kay, 1991, Assistant Professor of Physics
B.A., Stanford; M.S., Ph.D., University of California
- Joel B. Kaye, 1992, Assistant Professor of History
B.A., University of Wisconsin; M.A., University of Massachusetts; Ph.D., University of Pennsylvania
- Tatiana Keis, 1967, Reserve Librarian
A.B., M.L.S., Columbia
- Morton Klass, 1965, Professor of Anthropology
A.B., Brooklyn; Ph.D., Columbia

- John Lad, 1980, Lecturer in Philosophy
B.S., Case Institute of Technology; Ph.D., Stanford; M.Mus.,
State University of New York at Stony Brook
- Sue Howard Larson, 1969, Professor of Philosophy
A.B., Ph.D., Stanford
- Noa Latham, 1990, Assistant Professor of Philosophy
B.A., Cambridge; M. Phil., London; Ph.D., Berkeley
- William H. Lazonick, 1985, Professor of Economics
B.Com., University of Toronto; M.Sc., London School of Economics
and Political Science; Ph.D., Harvard
- Lydia H. Lenaghan, 1962, Professor of Classics
A.B., Barnard; M.A., Ph.D., Bryn Mawr
- Leslie Lessinger, 1977, Professor of Chemistry
B.A., M.A., Ph.D., Harvard
- Paula Loscocco, 1992, Assistant Professor of English
B.A., Smith College; Ph.D., Boston College
- Richard J. Lufrano, 1990, Assistant Professor of History
B.A., State University of New York at Binghamton; M.A., Ph.D., Columbia
- Alfred Mac Adam, 1983, Professor of Spanish
B.A., Rutgers; M.A., Ph.D., Princeton
- Joseph L. Malone, 1967, Professor of Linguistics
A.B., M.A., Ph.D., University of California at Berkeley
- Wendy J. Marks, 1988, Associate in Physical Education
B.S., Ithaca College; M.A., Kent State
- Wendy McKenna, 1980, Adjunct Associate Professor of Psychology
B.A., Antioch; Ph.D., CUNY
- William McNeil, 1981, Associate Professor of History
B.A., Washington State; M.A., Ph.D., University of California at Berkeley
- Sheila McTighe, 1990, Assistant Professor of Art History
B.A., Georgetown; M.A., Ph.D., Yale
- Elise G. Megehee, 1990, Assistant Professor of Chemistry
B.A., U. of Rochester; M.A., Ph.D., U. of North Carolina, Chapel Hill
- Perry G. Mehrling, 1987, Assistant Professor of Economics
B.A., Harvard; M.Sc., London School of Economics; Ph.D., Harvard
- Deborah D. Milenkovitch, 1965, Professor of Economics
A.B., Radcliffe; Ph.D., Columbia
- Barbara S. Miller, 1968, Samuel R. Milbank Professor of Asian and Middle Eastern Cultures
A.B., Barnard; M.A., Columbia; Ph.D., Pennsylvania
- James P. Mohler, 1986, Assistant Professor of Biological Sciences
B.A., Iowa; Ph.D., Massachusetts Institute of Technology
- Joanne Ryan Morse, 1957, Professor of English
A.B., Vassar; M.A., Yale
- Mary Mothersill, 1963, Professor of Philosophy
A.B., Toronto; M.A., Ph.D., Radcliffe
- Patricio Keith Moxey, 1988, Professor of Art History
B.A., University of Edinburgh; M.A., Ph.D., U. of Chicago

THE FACULTY

- Mary Beth Murray, 1990, Associate in Physical Education
B.S., Manhattan College; M.S., Queens College
- Gail F. Musen, 1992, Assistant Professor of Psychology
B.A., Clark University; Ph.D., University of California
- Robert Myers, 1992, Assistant Professor of Philosophy
B.A., Queen's University at Kingston; Ph.D., University of California
- Afsaneh Najmabadi, 1992, Associate Professor of Women's Studies
B.A., M.A., Harvard; Ph.D., University of Manchester
- Catherine T. Nepomnyashchy, 1987, Assistant Professor of Russian
B.A., M.A., Brown; M.Phil., Ph.D., Columbia
- Barbara Novak, 1958, Helen Goodhart Altschul Professor of Art History
A.B., Barnard; M.A., Ph.D., Radcliffe
- Dirk D. Obbink, 1989, Assistant Professor of Classics
B.A., M.A., University of Nebraska; Ph.D., Stanford
- Brian O'Doherty, 1970, Adjunct Professor of Art History
M.B., MC.H., D.P.H., University College, Dublin; M.Sc., Harvard
- Bruce A. O'Gara, 1991, Assistant Professor of Biological Sciences
B.S., University of Wisconsin; M.S., North Dakota St. University;
Ph.D., Iowa State University
- Robert G. O'Meally, 1988, Adolph S. & Effie Ochs Professor of English & American Studies
B.A., Stanford; M.A., Ph.D., Harvard
- Marco Pagnotta, 1988, Assistant Professor of Chemistry
B.S., Fordham; M.A., Ph.D., Harvard
- Remington P. Patterson, 1955, Professor of English
A.B., M.A., Ph.D., Yale
- Thomas Perera, 1966, Adjunct Associate Professor of Psychology
A.B., M.A., Ph.D., Columbia
- Nancy Kline Piore, 1989, Lecturer in English and French; Director of Writing Program
A.B., Barnard; M.A., Columbia; Ph.D., Tufts University
- Richard M. Pious, 1973, Professor of Political Science
B.A., Colby; Ph.D., Columbia
- Cary H. Plotkin, 1985, Assistant Professor of English
B.A., Yale; M.Phil., Ph.D., Columbia
- Jeanne S. Poin Dexter, 1991, Assistant Professor of Biological Sciences
A.B., Indiana University; M.A., Ph.D., University of California
- Anne Lake Prescott, 1959-62; 1963, Professor of English
A.B., Barnard; M.A., Ph.D., Columbia
- Quandra Prettyman, 1970, Associate in English
A.B., Antioch
- Rosa Alicia Ramos, 1980, Assistant Professor of Spanish
B.A., Barnard; M.A., Ph.D., Pennsylvania
- Agueda Pizarro Rayo, 1981, Lecturer in Spanish
A.B., Barnard; M.A., Ph.D., Columbia
- Robert Remez, 1980, Professor of Psychology
B.A., Brandeis; Ph.D., Connecticut

- Jonathan Rieder, 1990, Associate Professor of Sociology
B.A., Harvard; Ph.D., Yale
- Daniel C. Robie, 1992, Assistant Professor of Chemistry
B.S., Reed College; Ph.D., University of Illinois
- Leslie J. Root, 1988, Assistant Professor of Physics
B.S., Northeastern University; M.A., M. Phil., Ph.D., Columbia
- Rosalind Rosenberg, 1984, Professor of History
B.A., Ph.D., Stanford
- Jane H. Rosenthal, 1952-55; 1971, Professor of Art History
B.A., Douglass; Ph.D., Columbia
- Abraham Rosman, 1966, Professor of Anthropology
A.B., City College of New York; Ph.D., Yale
- Nan Rothschild, 1981, Associate Professor of Anthropology
B.A., Vassar; M.A., Columbia; Ph.D., New York University
- Perla Rozencvaig, 1977 Assistant Professor of Spanish
B.A., M.A., Ph.D., Columbia
- Paula G. Rubel, 1965, Professor of Anthropology
A.B., Hunter; Ph.D., Columbia
- Judith Russell, 1988, Assistant Professor of Political Science
B.A., M.A., M.Ph., Columbia
- Erik Sven Ryding, 1985, Assistant Professor of English
B.A., Fairleigh Dickinson; Ph.D., Columbia
- Susan Riemer Sacks, 1971, Senior Lecturer in Education
A.B., Northwestern; M.A., Western Reserve; Ph.D., Columbia
- Gertrud M. Sakrawa, 1952, Professor of German
Ph.D., Vienna; M.A., Ph.D., Columbia
- Celeste Schenck, 1977, Associate Professor of English
A.B., Princeton; M.A., Ph.D., Brown
- Flora Schiminovich, 1977, Senior Lecturer in Spanish
B.A., City College of New York; M.A., Hunter College;
M.A., Ph.D., City University of New York
- Alan Segal, 1980, Professor of Religion
B.A., Amherst; M.A., Brandeis; Ph.D., Yale
- Mirella d'Ambrosio de Servodidio, 1964, Professor of Spanish
B.A., Barnard; M.A., Ph.D., Columbia
- William Sharpe, 1984, Associate Professor of English
B.A., Columbia; M.A., Oxford; Ph.D., Columbia
- Marvin Shulman, 1968-69; 1975, Senior Associate in German
B.A., Coe; M.A., Columbia
- Rae Silver, 1976, Helene L. and Mark N. Kaplan Professor of the Physical and Natural Sciences
B.A., McGill; M.A., City University of New York; Ph.D., Rutgers
- Herbert Sloan, 1987, Assistant Professor of History
B.A., Stanford; J.D., Michigan; M.Phil., Ph.D., Columbia
- Janet Soares, 1968, Senior Lecturer in Dance
B.S., Juilliard; M.A., Ed.D., Columbia

THE FACULTY

Anita Soloway, 1982, Lecturer in English

B.A., Barnard; M.A., Ph.D., Columbia

Natalie Sonevytsky, 1959, Reference Librarian

A.B., New Rochelle; M.S., Columbia

Sandra Stingle, 1967, Adjunct Assistant Professor of Psychology

A.B., Barnard; Ph.D., Columbia

Steven John Stroessner, 1992, Assistant Professor of Psychology

B.A., Hope College; Ph.D., University of California

Elizabeth Swain, 1985, Adjunct Associate Professor of Theatre and

Acting Director of the Minor Latham Playhouse

B.S., M.A., Ph.D., City University of New York

Timea Szell, 1979, Assistant Professor of English

A.B., Barnard; M.A., Columbia; Ph.D., State University at Stony Brook

Mary Ellen Tucker, 1970, Systems Librarian

B.A., Barnard; M.L.S., Columbia

Deborah Valenze, 1989, Assistant Professor of History

B.A., Harvard; Ph.D., Brandeis

Joan E. Vincent, 1968, Professor of Anthropology

B.Sc., London School of Economics; M.A., Chicago; Ph.D., Columbia

John Vitkus, 1986, Assistant Professor of Psychology

B.A., Northwestern; Ph.D., Stanford

Naomi J. Weinberger, 1987, Assistant Professor of Political Science

A.B., Barnard; M.Phil., Ph.D., Columbia

Shelley Beth Weinstock, 1985, Assistant Professor of Chemistry

A.B., Bard College; Ph.D., Massachusetts Institute of Technology

Judith Weisenfeld, 1991, Assistant Professor of Religion

A.B., Barnard; M.A., Ph.D., Princeton

Marcia L. Welles, 1970, Professor of Spanish

A.B., Barnard; M.A., Middlebury; Ph.D., Columbia

Katherine K. Wilcox, 1971, Senior Associate in Education

A.B., City College of New York; M.A., Columbia

Christina L. Williams, 1980, Associate Professor of Psychology

B.A., Williams; Ph.D., Rutgers

Mary Ann Wynne, 1991, Lecturer in Physical Education

B.A., State University of New York; M.A., Ph.D., Ohio State

Helen J. Young, 1990, Assistant Professor of Biological Sciences

B.A., Washington University; Ph.D., State University of New York at Stony Brook

George Zettler, 1986, Assistant Professor of Mathematics

A.B., Harvard; Ph.D., Maryland

Angela Zito, (beginning 1993), Assistant Professor of Religion

B.A., Penn State; M.A.; University of Chicago; Ph.D., University of Chicago

Faculty Emeriti

Helen R. Downes, Ph.D., 1933-1960, Professor Emerita of Chemistry
 Amelia A. de del Rio, Ph.D., 1930-1962, Professor Emerita of Spanish
 Millicent C. McIntosh, Ph.D., LL.D., Litt.D., L.H.D., 1947-1962, President Emerita
 Lucyle Hook, Ph.D., 1948-1967, Professor Emerita of English
 Eugenio Florit, D. en D., 1945-1969, Professor Emeritus of Spanish
 Henry A. Boorse, 1937-1970, Ph.D., Professor Emeritus of Physics
 Julius S. Held, 1936-1970, Ph.D., Professor Emeritus of Art History
 Mirra Komarovsky, 1934-1970, Ph.D., Professor Emerita of Sociology
 Emma Dietz Stecher, 1945-1971, Ph.D., Professor Emerita of Chemistry
 Eleanor Rosenberg, 1953-1973, Ph.D., Professor Emerita of English
 Raymond J. Saulnier, Ph.D., LL.D., 1939-1973, Professor Emeritus of Economics
 George Woodbridge, Ph.D., 1960-1973, Professor Emeritus of History
 Marion Hamilton Gillim, Ph.D., 1952-1974, Professor Emeritus of Economics
 Joseph Gerard Brennan, 1947-1976, Ph.D., L.H.D., Professor Emeritus of Philosophy
 Helen Phelps Bailey, Ph.D., 1933-1977, Professor Emerita of French
 Eleanor M. Tilton, Ph.D., 1950-1979, Professor Emerita of English
 LeRoy C. Breunig, Ph.D., 1953-1980, Professor Emeritus of French
 Richard A. Norman, Ph.D., 1954-1981, Professor Emeritus of English
 David A. Robertson, Jr., Ph.D., 1940-1981, McIntosh Professor Emeritus of English
 Margarita Ucelay, Ph.D., 1943-1981, Professor Emerita of Spanish
 Chilton Williamson, Ph.D., 1942-1982, Professor Emeritus of History
 Leonard Zobler, Ph.D., 1955-1982, Professor Emeritus of Geography
 Jeanette S. Roosevelt, Ph.D., 1951-1958; 1962-1986, Professor Emerita of Dance
 Tatiana Greene, Ph.D., 1946-1987, Professor Emerita of French
 Bernard Barber, Ph.D., 1952-1988, Professor Emeritus of Sociology
 John Meskill, Ph.D., 1959-1988, Professor Emeritus of Oriental Studies
 Barry Ulanov, Ph.D., Litt.D., 1951-1988, Professor Emeritus of English
 Helen Bacon, Ph.D., 1961-1989, Professor Emerita of Classics
 Patricia Carpenter, Ph.D., 1961-1989, Professor Emerita of Music
 John Sanders, 1968-1989, Ph.D., Professor Emeritus of Geology
 Brigitte Bradley, Ph.D., 1962-1990, Professor Emerita of German
 Maristella Lorch, Ph.D., 1951-1990, Professor Emerita of Italian
 Ruth M. Kivette, Ph.D., J.D., 1952-1992, Professor Emerita of English
 Suzanne F. Wemple, Ph.D., J.D. 1966-1992, Professor Emerita of History

ADMINISTRATION

Officers of Administration

Ellen V. Futter, J.D., President of Barnard College and Dean in the University
Robert A. McCaughey, Ph.D., Vice President of Academic Affairs and Dean of the Faculty
and Professor of History
Sigmund G. Ginsburg, M.P.A., Vice President for Finance and Administration
Barbara S. Schmitter, M.A., Vice President and Dean for Student Affairs and Associate
Professor of Psychology
R. Christine Royer, M.A., Vice President for Public Affairs
Kathryn J. Rodgers, J.D., Vice President and General Counsel
Carol Herring, B.A., Vice President for The Campaign for Barnard

Office of the President

Lorraine L. Belgrave, A.B., Administrative Assistant to the President

Office of the Vice President for Academic Affairs and Dean of the Faculty

Flora S. Davidson, Ph.D., Associate Dean of the Faculty
Gwendolyn Williams, B.A., Administrative Assistant to the Dean

Office of the Vice President for Finance and Administration

Helen Vanides, Director of Budget
Lewis Wyman, B.A., Director of Planning

Office of the Vice President and Dean for Student Affairs

Vivian A. Taylor, Ed.M., Associate Dean for Student Affairs
Susan F. Cohn, Ph.D., Assistant to the Vice President

Office of the Vice President for Public Affairs

R. Christine Royer, B.A., M.A., Vice President for Public Affairs
Penelope Van Amburg, B.A., M.A., Senior Staff Writer/Editor
Susan G. Singley, B.A., Stewardship Officer and Coordinator for Public Affairs

Office of Public Affairs, Administrative Services

Thomas L. Epps, B.A., Director of Administrative Services
Ruth Y. Clarke, Gifts Management Officer

Office of the Vice President and General Counsel

Michael Feerman, J.D., Assistant General Counsel
Edna O. Ray, Administrative Assistant to the Vice President and General Counsel

Office of Admissions

Doris Davis, M.A., Director
Nanci Tessier, M.Ed., Senior Associate Director
Annette DeCoste, A.B., Associate Director
Barbara Lewis, M.A., Manager of Operations and Systems
Lisa Shambaugh, Associate Director

Office of Alumnae Affairs

Irma Socci Moore, A.B., Director
Eva Miodownik Oppenheim, A.B., Associate Director
Gabrielle A. Hanna, A.B., Associate Director
Susan Ochshorn, A.B., Editor, Barnard Alumnae

Toni Crowley Coffee, A.B., Associate Editor, Barnard Alumnae
Yvonne S. Untch, Alumnae Records Officer

Annual Giving

Nancy D'Ambrosio, B.A., M.Ed., M.B.A, Director of Annual Giving
Danielle Kim, A.B., Annual Fund Officer
Mary Mahoney, A.B, J.D., Annual Fund Officer

The Barnard Center for Research on Women

Leslie Calman, Ph.D., Director
Valerie Green, Administrative Manager

Office of Facilities Operations

Suzanne P. Gold, Director, Facilities Services
Joseph R. Dattilo, Manager, Housekeeping
Ifill Antoine, Assistant Manager, Housekeeping
Paul Araujo, Supervisor, Housekeeping
Frank Laquitara, Manager, Maintenance
Luis Concepcion, Scheduling and Support Supervisor

The Campaign for Barnard

Edward M.G. Boland, B.A., Associate Director for Special Gifts
Reva G. Feinstein, B.A., Associate Director for Special Gifts
Geraldine Foudy, B.A., Research Assistant
Jodine K. Friedow, B.S., Director of Campaign Information Systems
and Special Projects Consultant
Sara A. Gurwitch, B.A., Associate Director for Special Gifts
Pamela R. Hughes, Executive Assistant to the Vice President for Campaign Relations
Judith R. Hyman, B.A., Director of Major Gifts
Charles M. Johnson, B.A., Director of Research
Brian J. Mooney, B.A., J.D., Director of Planned Giving
Robert W. Pearson, B.A., M.A., Ph.D., Director of Corporate and Foundation Relations
Gail Hall Zarr, B.A., M.A., Director of Campaign Publications

Office of Career Services

Jane Celwyn, M.A., Director
Elayne Garrett, Ph.D., Associate Director
Helen LaFave, M.A., Recruitment Program Coordinator
Sandra Mullin, B.A., Internship Program Coordinator
Margaret Heenahan, M.A., Student Employment Officer
Michelle Tullier, Ph.D., Career Counselor

Office of College Activities

Christopher S. Koutsovitis, M.A., M.Ed., Director
Patricia Marin, M.Ed., College Activities Coordinator
Paul Nolan, B.A., Operations Coordinator

Controller's Office

Gary F. Smith, M.B.A., C.P.A., Controller
Ricky R. White, Associate Controller
Betty Denkinger, Bursar
Barbara H. Robbins, Assistant Controller

ADMINISTRATION

Ethel Yang, Payroll Supervisor
Jacqueline A. Greene, Senior Accountant
Alexander Polanco, Accountant

Office of the Dean of Studies

Vilma M. Bornemann, M.A., Dean of Studies
Dorothy Denburg, Ed.D., Associate Dean of Studies and Class Dean
Rosa Alicia Ramos, Ph.D., Assistant Dean
Esther Rowland, M. Phil, M.A., Associate Dean of Studies
Aaron Schneider, Ph.D., Assistant Dean of Studies and Class Dean
Marjorie Croes Silverman, Ph.D., Assistant Dean of Studies
Katherine Wilcox, M.A., Assistant Dean of Studies

Office for Disability Services

Susan E. Quinby, M.A., Director
Jo Ellen Gordon, M.A., Learning Disabilities Specialist
Rose L. Gladden, Secretary

Office of Financial Aid

SuzanneClair Guard, B.A., Director
Susan V. Lee, B.A., M.A., Associate Director
Afsie Djabbari-Aslani, M.P.A., Associate Director
Beverly M. Christian, B.S., Information Officer

Student Health Services

Mary E. Wheat, M.D., Director of Student Health Services
Barbara Liskin, Clinical Director of Mental Health Services
Giselle Harrington, Program Coordinator, Health Promotion
Theresa O'Rourke, R.N., Head Nurse
Phyllis Kaplan, Administrator

Office of Associate Dean for Student Affairs

Vivian A. Taylor, M.Ed., Associate Dean for Students
Francesca M. Cuevas, B.A., HEOP Director
Gloria Gasden, B.A., Associate Director, HEOP
Kellie Newman, B.A., Counselor, HEOP
Alexandra Nestoras, B.A., Liberty Program Coordinator
Ivette Vargas, B.A., STEP Director
Rhonda Harrison, B.A., STEP/McNair Administrative Assistant and Events Coordinator

Wollman Library

Eileen Agard Glickstein, M.A., M.L.S., College Librarian
Christina Bickford, M.S., Ed.M., Media Services Librarian
Karen Dobrusky, M.S., M.P.H., Reference Librarian
Mary Giunta, M.S., Collection Management Librarian
Demetrios Ioannides, M.A., M.L.S., Reference Librarian
Tatiana Keis, M.S., C.A.L., Reserve Librarian
Jane Lowenthal, M.Ed., M.L.S., Archivist
Kenneth Soehner, M.S., Technical Services Librarian
Natalia Sonevytsky, M.S., C.A.L., Reference Librarian
Mary Ellen Tucker, M.S., C.I.M., Systems Librarian

Office of Management Information Systems

Lewis Wyman, Director

Tobyn Sharp, Network/Systems Administrator

Joe M. Hemway, Assistant Coordinator of Database Systems

William P. Bertsch, Systems/Database User Support Analyser

Michael Roberson, Operations Manager

Angela Burke, Coordinator of Academic Information Systems

Jayasree Krishnamurthy, Micro Computer Lab Supervisor

Office Services

Myrtle Tate, B.S., Associate Director of Mail Services

Alan Anderson, B.A., Associate Director of Reprographics

Personnel Office

Rhondda Tewes, B.S., Director

Charles Gadsden, B.A., Associate Director

Mary Artis, B.A., Employee Benefits Administrator

Office of Public Relations

Beverly Solocheck, B.S., Director

Susan Price, B.A., Associate Director

Office of Purchases and Stores

Paula Newman, Director

Office of the Registrar

Constance Brown, Ph.D., Registrar

Marybeth Maher, Assistant Registrar

Patsy To, Assistant Registrar

Office of Student Life and Housing

Ione G.W. Gatch, Dean of Student Life

Sandra S. Johnson, Associate Dean of Student Life

Gloria Anderson, Administrative Assistant to the Dean

Marissa Guijarro, Housing Manager

Kim Hapgood, Resident Director, 600, 616, 620 West 116th Street

Peter Libman, Resident Director, Brooks, Hewitt & Sulzberger Tower

Lillian Caddle, Area Manager, 600, 616, 620 West 116th Street

Paulette Suber, Area Manager, Brooks, Hewitt, Reid & Sulzberger Halls

Office of Safety and Security

William P. Stump, M.A., Director

Betty Weems, Associate Director

Karla Buchting, Evening Supervisor

James Kelly, Evening Supervisor

Gregory Naar, Night Supervisor

Fred Uzakowicz, Night Supervisor

ADMINISTRATION

Office for Special Academic Programs

Beth G. Kneller, M.Ed, Director

Thalassa Mansfield, A.B., Assistant to the Director

Office of Summer Programs

Jean McCurry, M.A., Director

Andrew Kane, B.A., Associate Director

Helen Balyszak, B.A., Assistant to the Director

THE ASSOCIATE ALUMNAE OF BARNARD COLLEGE

The Associate Alumnae of Barnard College comprises over 22,000 members from all 50 states of the Union and more than 63 countries abroad. Members include all who have completed a year or more of study at Barnard and have left in good academic standing as well as those who hold a Barnard degree. There are no alumnae dues. Barnard alumnae regularly receive *Barnard Alumnae* magazine, *Barnard Reporter* newsletter, and invitations to alumnae events and other annual academic and career programs.

The Associate Alumnae serve the College in three important ways: keeping local high school students informed about Barnard; interpreting Barnard to the community in general; and voluntarily aiding in the support of the College.

Barnard Alumnae Council, a nationwide group of alumnae leaders, meets annually on campus for the exchange of ideas and to receive updated information on the College so they may continue to represent Barnard effectively.

More than 80 clubs and informal local groups of Barnard alumnae in the United States and abroad form a network that makes it possible for Barnard alumnae to find one another. Alumnae traveling or moving to a new location may call the Office of Alumnae Affairs for alumnae contacts in the United States and abroad.

The Associate Alumnae is governed by a 21-member board elected annually by all Barnard alumnae. Four alumnae are elected to represent the Associate Alumnae on the Board of Trustees of Barnard College. The central office of the Associate Alumnae is the Office of Alumnae Affairs on campus.

Officers of the Associate Alumnae

Sheila C. Gordon, *President*

Carol Murray Lane, *Vice President*

Gayle Robinson, *Vice President*

Directors

Anne Bernays

Elaine Schlozman Chapnick

Stephani Cook

Myrna Fishman Fawcett

Paula Franzese

Christine Giordano

Jodie-Beth Galos

Janis Hardiman-Robinson

Ilene P. Karpf

Camille Kiely Kelleher

Judith Lefkowitz Marcus

Emily Gaylord Martinez

Eileen McCorry

Kathie Plourde

Darlene Yee

Alumnae Trustees

Carol Herman Cohen

Sheila C. Gordon

Martha Kostyra Stewart

Diana Touliatou Vagelos

BARNARD ALUMNAE

ADMISSIONS REPRESENTATIVES

Barnard Alumnae Admissions Representatives (BAARs) are qualified alumnae appointed by the Admissions and Alumnae Offices who act in liaison capacity between the College and prospective students, parents, and high school counselors. BAARs frequently attend college information meetings at secondary schools, host informal gatherings for prospective students, and conduct local interviews. High school students considering Barnard and interested in speaking with a BAAR, may arrange an interview by writing to the individual nearest them or by calling the Office of Admissions (212-854-2014). A listing of the BAARs follows.

ARIZONA

Ms. Renee Gerstman
1011 W. Las Palmaritas,
Phoenix 85021-5548

CALIFORNIA

Mrs. Anne E. Aull
208 Madrone Avenue,
Larkspur 94939

Ms. Louise R. Begley
2295 Emerson Street,
Palo Alto 94301

Vicki Curry
1620 Venice Boulevard #202,
Venice 90291

Ms. Donna Masters de Pacheco
1035 East Woodbury Road,
Pasadena 91104

Ms. Nora E. Dwyer
8003 Jovenita Canyon Road,
Los Angeles 90046

Ms. Kirsten Grimstad
14709 Bestor Blvd.,
Pacific Palisades 90272

Ms. Toby S. Levy
26 South Park,
San Francisco 94107

Ms. Pamela Munro
5622 Harold Way #D,
Los Angeles 90028

Ms. Jee Hi Park
4645 17th St.,
San Francisco 94117

Ms. Arlene Fisher Rettig
9470 Hidden Valley Place,
Beverly Hills 90210

Dr. Susan Romer
333 Hill Street,
San Francisco 94114

Ms. Gladys L. Sessler
3071 Buena Vista Way,
Berkeley 94708

Ms. Nina L. Shaw
Del, Rubel, Shaw
1801 Century Park East,
Los Angeles 90067

COLORADO

Ms. Georgianna Contiguglia
2212 South Alton Way,
Denver 80231-3408

Ms. Lisa M. Deitsch
3230 15th Street,
Boulder 80302

Ms. Brooke Williams Durland
194 S. Franklin Street,
Denver 80209

Ms. Sheila C. Gallup
7818 East Windcrest Row,
Parker 80134

Mrs. Jane Hansen
4867 Evening Sun Lane,
Colorado Springs 80917-2668

Ms. Allegra Haynes
3031 Dexter Street,
Denver 80207

CONNECTICUT

Daria M. Friel, D.M.D.
580 Mt. Vernon Road,
Plantsville 06479

Ms. Pamela D. Gallagher
111 Glen Drive,
New Canaan 06840-3637

Ms. Barbara Cain Rucci
63 Riverview Avenue,
New London 06320

Mrs. Sara Miller Trachten
80 Woodside Terrace,
New Haven 06515

DELAWARE

Ms. Norma Garfen Pressman
1008 Parkside Drive,
Wilmington 19803

Mrs. Esther Melnick Timmeney
2818 Landon Drive,
Wilmington 19810

DISTRICT OF COLUMBIA

Mrs. Arden S. Ruttenberg
4735 Butterworth Place NW,
Washington 20016

FLORIDA

Ms. Toby Berman
4361 Casper Court,
Hollywood 33021-2413

Mrs. Mabel S. Foust
2871 North Ocean
Boulevard, 2 Capri 507,
Boca Raton 33431

Ms. Evelyn Langlieb Greer
2400 South Dixie Highway,
Suite 200, Miami 33133

Dr. Linda L. McAlister
7911 Citrus Drive,
Tampa 33637

Ms. Donna Young Waller
3333 NW 5th Street,
Gainesville 32609

GEORGIA

Pamela Barnett
1179 Clifton Road NE, Apt. #B,
Atlanta 30307-1229

Ms. Susan Bass Bolch
4755 Northside Drive NW,
Atlanta 30327

BARNARD ALUMNAE ADMISSIONS REPRESENTATIVES

Ms. Eleanor Finley
3777 Peachtree- Dunwoody
Road NE,
Atlanta 30342

Ms. Roanne L. Jaffe
815 Overhill Court NW,
Atlanta 30328

Ms. Wendy S. Reilly
P.O. Box 1031,
Sea Island 31561

Ms. Stella Irro Tsai
389 Mulberry Street, Suite 200,
Macon 31201

HAWAII

Peggy Anne Siegmund
(Mrs. Harry M. Siegmund)
616 Uluhala Street,
Kailua 96734

ILLINOIS

Ms. Sarah Bliss
517 West Deming, Apt. 1
North, Chicago 60614

Ms. Bernice A. Clark
415 Fullerton Parkway
Apt. # 204,
Chicago 60614

Ms. Hannah Dresner
1943 West Lunt Avenue,
Chicago 60626-2309

Mrs. Gretchen Hannan
908 Argyle Avenue,
Flossmoor 60422-1257

Ms. Donna Rudnick Lebovitz
1128 Green Bay Road,
Glencoe 60022

Ms. Lauren Taaffe
2348 N Cleveland Avenue,
Apt. 4
Chicago 60614

Ms. Ellen D. Weinstein
1642 Coloma Place,
Wheaton 60187

INDIANA

Dr. Rose S. Fife
5 Smith Lane,
Zionsville 46077

KENTUCKY

Mrs. Ruth Lerman Fitzpatrick
Kentucky Dept. of Education
1612 Capital Plaza Tower,
Frankfort 40601

Ms. Barbara Grossman
Out Voice Associates,
516 West Third Street,
Lexington 40508

Ms. Martha A. Ziskind
2311 Douglas Blvd.,
Louisville 40205-1709

LOUISIANA

Mrs. Kathleen Causey
1206 Riverside Drive,
Monroe 71201

MARYLAND

Ms. Sharon B. Benzil
1414 Light Street,
Baltimore 21230

Ms. Margaret French Bowler
8216 Rockdale Avenue,
Baltimore 21207

Ms. Susan J. Gaztanaga
4410 Bowleys Lane, Apt. # 1B,
Baltimore 21206

Ms. Sonya L. Gordon
6300 Owen Place,
Bethesda 20817

Ms. Barbara Lehmann-Siegel
1318 Midwood Place,
Silver Spring 20910

Mrs. Joyce Seidman Shankman
9502 Clement Road,
Silver Spring 20910

Ms. Barbara R. Stewart
5359 Red Lake,
Columbia 21045

Ms. Sheila Thaler-Olansky
2300 Crest Road,
Baltimore 21209

Ms. Miriam Zadek
5911 Bonnie View Drive,
Baltimore 21209

MASSACHUSETTS

Ms. Ruthana M. Donahue
80 Taconic Avenue, Apt. # 11,
Great Barrington 01230

Ms. Diane Levine Gardener
41 Eliot Memorial Road,
Newton 02158

Ms. Barbara G. Glazerman
14 Perry Lane, Weston 02193

Ms. Andrea Gordon
163 Gun Hill Street,
Milton 02186

Ms. Mina Hechtman
3 Glenoe Road,
Chestnut Hill 02167

Ms. Ann Dawson Johnson
9 Hickory Drive,
Florence 01060

Ms. Deborah Naima Margolis
6 Bellvista Road, Apt. # 4,
Brookline 02146

Ms. Verna Bigger Myers
39 Draper Street,
Dorchester 02122-1629

Mrs. Bonnie M. Orlin
433A Dedham Street,
Newton 02159

Jean Russell Miller Rich
26 Leighton Road,
Wellesley 02181

Dr. Adrienne A. Rulnick
141 Wendell Avenue,
Pittsfield 01201

Ms. Catherine L. Weisbrod
203 Allston Street,
Cambridge 02139

Ms. Natalie Wigotsky
2 Brimmer Street, Apt. # 1,
Boston 02108

MICHIGAN

Mrs. Margot C. Parker
1100 Berkshire Road,
Grosse Pointe Park 48230

MINNESOTA

Ms. Bonnie Fleming
2701 Dean Parkway,
Minneapolis 55416

BARNARD ALUMNAE ADMISSION REPRESENTATIVES

Marian Rubenfeld, M.D., Ph.D.
750 Medical Arts Bldg.,
825 Nicollet Mall,
Minneapolis 55402

MISSISSIPPI

Dr. Diane Ross Field
29 Old Oak Lane,
Gulfport 39503

MISSOURI

Ms. Jo Anne Barry
6350 Waterman Avenue,
St. Louis 63130

MONTANA

Ms. Melanie Hoell
701 South Second West,
Missoula 59801

NEW JERSEY

Ms. Judith G. Ingis
4 Sheldon Place,
Moorestown 08057

Ms. Carolyn J. Lewis
135 Countryside Drive,
Basking Ridge 07920

Ms. Lisa Deitch Taylor
8 Brookside Place,
Livingston 07039

NEW YORK

Ms. Mary Ann D'Alto
2462 Marie Court,
Bellmore 11710

Mrs. Athene S. Goldstein
20 Varinna Drive,
Rochester 14618

NORTH CAROLINA

Marla Cohen
1004 Hale Street,
Durham 27705

Ms. Nahomi Harkavy
P.O. Box 1109,
Greensboro 27402-0990

OHIO

Mrs. Lea Hayes Fischbach
29826 South Woodland Road,
Pepper Pike 44124

Mrs. Roberta Handwerger
7150 Fair Oaks Drive,
Cincinnati 45237-2920

Alla Kirsch, M.D.
22750 Rockside Road,
Bedford 44146

OREGON

Ms. Marcia Kellmer Lee
2380 SW Timberline Drive,
Portland 97225

PENNSYLVANIA

Rosemarie Fabien
326 West Glenside Avenue,
Glenside 19038

Susanna M. Leers
1540 Beechwood Blvd.,
Pittsburgh 15217-1432

Ms. Joyce A. Monaco
126 Westminster Drive,
Wallingford 19086

Ms. Elizabeth Schnitzler
15 Locust Avenue,
Fallsington 19054

RHODE ISLAND

Nancy J. Mayer, Esq.
Poppasquash Road,
Bristol 02809

TENNESSEE

Ms. Georgina Marrero
P.O. Box 150935,
Nashville 37215

TEXAS

Natalie Mayer Beller
370 Pike Road,
San Antonio 78209

Ms. Barbara P. Campbell
12210 Apricot Drive,
San Antonio 78247

Ms. Kathleen A. Claffy
107 Woodhaven Lane,
Seabrook 77586

Ms. Margaret Howard Cook
P.O. Box 116744,
Carrollton 75011-6744

Ms. Aileen Mejia Pratt
5055 Park Lane,
Dallas 75220-2032

Ms. Rebecca A. Siegel
Johnson & Gibbs, PC
900 Jackson Street,
Dallas 75202

UTAH

Ms. Elizabeth T. Dunning
1270 3rd Avenue,
Salt Lake City, 84103-4344

VIRGINIA

Mrs. Barbara H. Colby
1200 N. Nash Street, Apt. # 1118
Arlington 22209

Ms. Stephanie Kinzey
1610 Pope Avenue,
Richmond 23227-3754

Margery K. Owen
(Mrs. Heth Owen, Jr.)
3 Greenway Lane,
Richmond 23226

Ms. Claire Tse
2257 Cedar Cove Court,
Reston 22091

Ms. Suzanne Monaco Urso
15615 Meherrin Drive,
Centreville 22020

WASHINGTON

Susan Pierini
15 North E. Street, Apt. 58,
Tacoma 98403-3129

Diane C. Stein, M.D.
7217 57th Avenue NE,
Seattle 98115

WISCONSIN

Lynne Holland Kleinman, Ph.D.
6183 North Berkeley Blvd.,
Whitefish Bay 53217

BARNARD ALUMNAE ADMISSION REPRESENTATIVES

FOREIGN COUNTRIES

CANADA

Ms. Brenda Assael
992 A Queen Street West,
Apt. 301
Toronto, Ont. M6J 1H1

Ms. Donna R. Edouard
21 Simpson Crescent,
Saskatoon, Saskatchewan
S7H3C5

CYPRUS

Ms. Barbara Petropoulou
Persefonis 4, Acropolis,
Apt. 204
Nicosia

ENGLAND

Ms. K. J. S. Bowyer-Bower
Flat 5, 138 Bedford Hill
Balham, London, SW12 9HW

Ms. Cindy Rose
198 Old Brompton Road
Flat 4, London SW5, OBT

FRANCE

Ms. Genevieve Acker
20 Boulevard de la
Republique
92210, St. Cloud

Ms. Danielle Haase-Dubosc
4 rue de Chevreuse, Reid Hall
Paris 75006

GREECE

Mrs. Jo-Anne Cacoullos
Nikes 13 Paradisos
Amaroussion 15125, Athens

HONG KONG

Ms. Christine E. Mar
20 Bellevue Drive, 7th Floor
Repulse Bay

ISRAEL

Mrs. Judy Hurwich
4 Marcus Street 92233
Jerusalem

ITALY

Ms. Bethanie Turitz Alhadeff
Via Luigi Anelli 4
Milano 20122

JAPAN

Mrs. Yvonne Bregman
9-4, 4-chome Onoharanishi
Minoh 562

Ms. Yukari Osawa
3-9-12-203 Yuigahama,
Kamakura City 248

NETHERLANDS

Mrs. Eloise A. Andrus
Jacques Urlusstraat 97
2551 HA Den Haag

PAKISTAN

Nadia Chundrigar-Hanif
57/II (B-7 Street)
22nd Street, Phase 5,
Defence Housing Authority
Karachi

SPAIN

Ms. Helen L. Versfelt Pastor
Agustin De Foxa 19-7B
Madrid 28036

SWITZERLAND

Ms. Caroline A. Brown-Straessle
Bergstrasse 35
8700 Kuesnacht

TAIWAN

Ms. Ava Chien
35 Chien Kuo North Road
Section II, No. 5 of 5th Floor
Taipei 10433

VENEZUELA

Ms. Giselle Sàmuely
Apartado 6004,
Caracas 1010A

SCHOLARSHIP FUNDS

UNRESTRICTED

Mary Allen Fund (1981) <i>In memory of Ruth Marley.</i>	Class of 1926 Fund (1981)
Neils J. Allison Fund (1964) <i>From the estate of Beatrice C. Allison.</i>	Class of 1930 Fund (1975)
Arthur G. Altschul Fund (1984)	Class of 1931 Memorial Fund (1981)
Helen Goodhart Altschul Fund (1990) <i>In memory of Helen Goodhart Altschul '07.</i>	Class of 1933 Fund (1973)
Alumnae Fund (1922)	Class of 1935 Fund (1975)
Anna E. Barnard Fund (1899)	Class of 1936 Fund (1971)
Joan H. Baum Fund (1977)	Class of 1938 Fund (1989)
Frances E. Belcher Fund (1963)	Class of 1939 Fund (1990)
Ruth Marshall Billikopf Fund (1950)	Class of 1940 Memorial Fund (1991)
Varian White Blumberg Fund (1952)	Class of 1943 Fund (1989)
Rose and Solomon Blumenthal Fund (1987)	Class of 1947 Memorial Fund (1982)
Elizabeth M. Bogardus Fund (1976)	Class of 1948 Fund (1989)
Charles E. Bogert and Anna Shippen Young Bogert Memorial Fund (1913)	Class of 1953 Fund (1973)
Eva-Lena Miller Booth Fund (1932)	Class of 1954 Fund (1955)
Dorothy S. Boyle Fund (1978)	Class of 1959 Fund (1974) <i>In memory of Jacqueline Zelniker Radin.</i>
Josephine Brand Fund (1970)	Class of 1963 Fund (1983)
Brearley School Fund (1889)	Class of 1974 Fund (1991)
Martha Ornstein Brenner Fund (1915)	Class of 1981 Fund (1982)
The Anny Birnbaum Brieger '29 and Edith Birnbaum Oblatt '29 Fund (1992)	Martine Cobanks Fund (1973)
Arthur Brooks Fund (1897)	Beatrice Rosenthal Coleman Scholarship Fund (1991)
Margaret Bullowa Fund (1979)	College Bowl Fund (1968)
Elsa B. Bunn Fund (1980)	Barbara Myers Cross Fund (1986)
Elizabeth Hobe Burnell Fund (1971)	Yvonne Moen Cumerford Fund (1972)
Suzanne Payton Campbell '20 Fund (1992)	Caryl M. Curtis Fund (1980)
Fanny Steinschneider Clark Fund (1978)	Vera B. David Scholarships (1962) <i>In memory of her late husband, John David.</i>
Jennie B. Clarkson Fund (1898)	Ethel Dawbarn Fund (1987)
Class of 1918 Fund (1975)	Blanche Heyman Doernberg Fund (1991)
Class of 1921 Fund (1931)	Ada M. Donelle Fund (1948)
Class of 1925 Fund (1975)	L. Adele Dorsett Fund (1971)
	Helen Geer Downs Fund (1974)

Amelia Cary Duncan Fund (1976)	Rita Hilborn Hopf Memorial Fund (1966)
Marie G. Eckhardt Fund (1990)	Charles Evans Hughes Fund (1952)
May Parker Eggleston Fund (1977)	Eleanor Levison Israel Fund (1976)
Betty Eisenstadt Fund (1982)	Lucie Burgi Johnson Fund (1979)
<i>In memory of Sarah and Israel Gillman and of Betty Eisenstadt.</i>	Lily Murray Jones Fund (1950)
Elizabeth Kramer Emmons Fund (1986)	Mildred K. Kammerer Fund (1973)
Sarah Engel Fund (1973)	Peggy King Scholarship Fund (1986)
Laura Teller Ericsson Fund (1976)	Mirra Komarovsky Fund (1975)
Margaret Jane Fischer Fund (1968)	Lucile Wolf Koshland Fund (1980)
Fiske Fund (1895)	Elsie M. Kupfer Fund (1975)
Martha T. Fiske Fund (1911)	Margaret Irish Lamont Fund (1978)
Edyth Fredericks Fund (1974)	Augusta Larned Fund (1924)
Clara Lillian Froelich Fund (1979)	Marjorie Hermann Lawrence Fund (1965/67)
Doris P. Gallert Fund (1970)	Yves LeMay Fund (1982)
Galway Fund (1912)	Harriett Mooney Levy Fund (1965)
Helen Jenkins Geer Fund (1940)	Joan Sperling Lewinson Fund (1955)
Cecile Meister Gilmore and Benjamin Gilmore Fund (1986)	Judith Lewittes Fund (1957)
Anita Hyman Glick Fund (1968)	Anne Elizabeth Lincoln Fund (1963)
Irma Alexander Goldfrank Fund (1919)	Amy Loveman Fund (1956)
Sarah S. and Louis A. Goldman Fund (1992)	<i>See Prizes, page 295.</i>
Harriet Wilinsky Goodman and Sylvan A. Goodman Fund (1983)	Louise Grace Luby and James Luby Fund (1947)
Elsa Gottlieb Fund (1982)	Barbara Scoville Maarschalk Fund (1977)
Graham School Fund (1907)	Frances E. and Harry W. Martin Fund (1986)
Blanche Kazon Graubard Fund (1981)	Jeanne S. Mattersdorf and Bertha Miller Memorial Fund (1970)
Ethel C. Gray Fund (1973)	Cecile Lehman Mayer Fund (1962)
Louise H. Gregory Fund (1955)	Leo Mayer Fund (1972)
Hetta Stapff Halloran Fund (1977)	Adele Duncan McKeown Fund (1973)
Harkness Fund (1939)	Eloise F. McLennan Fund (1987)
Jane Harnett Fund (1978)	Memorial Fund (1954)
Helen May Smith Helmle Fund (1973)	Dorothy E. Miner Fund (1977)
Margaret Holland Fund (1975)	Gladys Bateman Mitchell Fund (1980)
	William Moir Fund (1912)
	Gulli Lindh Muller Fund (1972)

SCHOLARSHIP FUNDS

Caroline Church Murray Fund (1918)
Annette Florence Nathan Fund (1947)
Dora R. Nevins Fund (1969)
Ann Whitney Olin Fund (1982)
Lucretia Perry Osborn Fund (1940)
Dorothy Brockway Osborne Fund (1976)
Elizabeth Palmer Fund (1972)
Jean T. Palmer Fund (1969)
Josephine Bay Paul Fund (1978)
Lucy Powell Fund (1971)
M. Gladys Quinby Fund (1961)
Jacqueline Zelniker Radin Fund (1975)
Eleanor Kaiser Reinheimer Fund (1976)
Eva Rich Fund (1968)
Peter C. Ritchie, Jr. Fund (1937)
Margaret Miller Rogers Fund (1976)
Caterina Ronzoni Fund (1986)
Edith Lowenstein Rossbach Memorial Fund (1959)
Carrie W. and Corine A. Rowe Fund (1979)
Edna Heller Sachs Fund (1955)
May and Edgar Salinger Fund (1971)
In memory of Isaac and Eugenie Herrmann.
Eleanor Butler Sanders Fund (1922)
Anna M. Sandham Fund (1922)
Katherine D. Schlayer Fund (1975)
Schmitt-Kanefent Fund (1931)
Scholarship Fund (1901)
Katherine Flint Shadek Fund (1961)

Dorothy Nolan Sherman Fund (1983)
Anne Victoria and Elizabeth Jane Shutkin Fund (1983)
Doris Silbert Fund (1987)
Max Sloman and Jane Stanley Fund (1971)
Emily James Smith Fund (1899)
Frances M. Smith Fund (1974)
Fred Curtis Smith Memorial Fund (1955)
George W. Smith Fund (1906)
Sylvia W. Stark Fund (1981)
C.V. Starr Fund (1983)
Claire Wander Stein Financial Aid Fund (1981)
Edna Phillips Stern Fund (1952)
Eleanor Holden Stoddard Fund (1977)
Isabel Greenbaum Stone Fund (1957)
Fannie Manwaring Sturtevant and Daniel Dwight Sturtevant Fund (1969)
Solon E. Summerfield Foundation Fund (1960)
Thrift Shop Scholarships (1938)
From the Barnard Scholarship Unit of Everybody's Thrift Shop.
Miriam Tobias Fund (1980)
Veltin School Fund (1905)
Florence Meyer Waldo Fund (1980)
Alma F. Wallach Fund (1951)
Dorothy Calman Wallerstein Fund (1976)
Ella Weed Fund (1895)
Hymen and Helen Werner Fund (1964)
Fern Yates Memorial Fund (1980).

RESTRICTED

Patricia Leigh (Pat) Abbott Fund (1981)
For a student or students who have overcome serious physical difficulties.

Mary Ann Adams & Lily Frances Adams Fund (1991)
Preferably for a student majoring in history or another social science.

Mary Gertrude Edson Aldrich Fund (1916)
To a senior who has shown high moral qualities.

Axe-Houghton Fund (1977)
For juniors or seniors with average of at least 3.0.

Bertha R. Badanes Fund (1966)
For children of New York City school teachers preferably from Brooklyn.

Barnard College Club of Brooklyn Fund (1944)
For a student from Brooklyn.

Barnard College Club of Greater San Francisco Fund (1986)
For a student preferably from the San Francisco Bay area.

Barnard College Club of Houston Fund (1969)
For students from the Houston area.

Barnard College Club of New York Fund (1952)
For a student from outside New York City.

Barnard-in-Westchester Fund (1962)
Preferably for students from Westchester County.

Barnard School Alumnae Fund (1916)
Preferably for nominees of the school.

Willina Barrick Memorial Fund (1936)
By the College Club of Jersey City for a graduate of a Jersey City secondary school.

The Annette Kar Baxter Memorial Fund (1984)
In memory of Annette Kar Baxter, '47, by her colleagues, students, classmates, and other friends. For students who have distinguished themselves in the study of some aspect of women's experience.

Irving Berlin Fund (1950)
For one or more Barnard students of foreign-born parentage.

Edward L. Bernays Continuum Prize and Scholarship Fund (1992)
For the winner of the Edward L. Bernays Prize (see page 297), or, if that student is not in need of financial aid, to the most outstanding writer among English majors.

June Rossbach Bingham Fund (1976)
For a Barnard student majoring in English, preferably one who is interested in pursuing a writing career.

Ida Blair Memorial Fund (1937)
Preferably for a student in political science.

Niña Thomas Bradbury '42 Fund (1992)
Preferably for a student interested in teaching.

Thornton F. Bradshaw Fund (1986)
For transfer students.

Alice Marie-Louise Brett Fund (1930)
For a senior specializing in French.

William Tenney Brewster and Anna Richards Brewster Fund (1961)
To be awarded in amounts not less than \$1,000 preferably.

Anne Brown Endowment Fund (1939)
For students from New York City.

Ruth L. Byram '24 Fund (1991)
Preferably for students interested in teaching or majoring in math.

Carpentier Residence Fund (1919)
For students who are not residents of New York City or its vicinity.

Therese Cassel Fund (1973)
For students born in New York City, preferably those whose mothers were born in New York City and attended Barnard College.

Eliza Taylor Chisholm Memorial Fund (1901)
Preference to nominees of the Alumnae Association of Miss Chisholm's School.

C.I.T. Financial Corporation Fund (1979)
In honor of Eleanor Thomas Elliott '48. For a student of economics, mathematics, or political science.

Class of 1919 Decennial Fund (1929)
For a resident student.

Class of 1926 Emergency Student Aid Fund (1976)
For emergency financial aid.

SCHOLARSHIP FUNDS

Class of 1949 Fund (1974)

For an incoming first-year student.

Mrs. Henry Clarke Coe Fund (1910)

By the New York City Colony of the National Society of New England Women, to a student from New England or of New England parentage.

Charles A. Dana Fund (1982)

For students designated Dana Scholars, as specified in the guiding principles for the program.

Babette Deutsch Fund (1978)

For Barnard students who have demonstrated exceptional ability in poetry, criticism, or translation.

Marie Ward Doty Fund (1981)

Preferably to daughters of parents in law enforcement or related fields.

Augusta Salik Dublin Fund (1960)

For a student in a field of social welfare.

Educational and Cultural Trust Fund of the Electrical Industry (1951)

For daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers.

May Parker Eggleston Fund (1972)

For a science student, preferably one planning to attend medical school.

Christine H. Eide Memorial Fund (1968)

For juniors majoring in anthropology or English.

Eleanor Thomas Elliott Fund (1973)

For winners of the Eleanor T. Elliott Prize (see p. #) and/or for other deserving students.

Gladys Renshaw Esterbrook Fund (1958)

Preferably for English or French majors.

Marion Pratt Fouquet Fund (1961)

Preferably for older students.

German Fund (1950)

For a German major. See also Prizes, page #.

Virginia C. Gildersleeve Fund (1968)

For a major in the humanities, preferably English.

Virginia C. Gildersleeve International Fund (1937)

For a foreign student.

Elizabeth Hughes Gossett Scholars (1981)

For freshmen or sophomores for academic achievement, demonstrated inclination toward public service, and leadership qualities.

Julius Held Fund (1970)

For students majoring in Art History

Dominique Henrey Memorial Fund (1990)

For a first-year student who has an interest in creative writing.

Emma Hertzog Fund (1904)

For a graduate of Yonkers High School.

Alena Wels Hirschorn '58 Fund (1986)

For the winner of the Alena Wels Hirschorn essay prize, or to the most outstanding economics major.

Marion Alice Hoey Fund (1944)

Preferably for a student in Greek and Latin.

Hannah and Henry Hofheimer Fund (1975)

For a freshman.

Holland Dames Fund (1915)

For a descendant of early Dutch settlers.

Lillia Babbitt Hyde Fund (1953)

For premedical students.

Charlotte Louise Jackson Fund (1928)

For a graduate of Yonkers High School.

Mary E. Larkin Joline Fund (1927)

For a student specializing in music.

Werner Josten Fund (1955)

Preferably for a student in music.

Jessie Kaufmann Fund (1902)

For a student who has no relative able to offer financial assistance.

Kimball Fund (1938)

For a student from Spain or one of the Spanish-American countries for study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish.

Eleanor Kinnicutt Fund (1911)

For a sophomore of exceptionally high standing.

John A. Kouwenhoven Fund (1991)

Preferably for an English major.

Henry C. Kuever and Frederick W.A.

Fuller Fund (1981)

Preferably for a student majoring in music, or in Greek or mathematics.

Dr. Ann G. Kuttner Fund (1969)

Preferably to premedical students.

Eugene M. Lang Fund (1988)

Preferably for minority students.

Hortense Owen Lazar '26 Fund (1991)
Preferably for students who have demonstrated both exceptional promise in the field of creative writing and a practical concern for others.

Ethel Stone LeFrak Prize and Scholarship (1986)
To a student for excellence in a field of the arts, the balance as a grant to the prize recipient or a meritorious alternate.

Bernard Liberman Fund (1979)
For premedical students.

Carolina Marcial-Dorado Fund (1953)
For a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad or to a student who is majoring in Spanish.

Raphael Marino Fund (1977)
For a student proficient in Italian language, literature, art, or culture.

Eugene F. and Minnie Gouger McGowan Fund (1955)
Preferably for students from Mecklenburg County, North Carolina.

Fannie Moulton McLane Fund (1961)
For citizens of the United States preferably of Colonial or Revolutionary ancestry, or the descendants of a Civil War soldier.

Mrs. Donald McLean Fund (1906)
For a student of history (chiefly that of the United States).

Barbara and Marilyn Meyers Fund (1986)
Preferably for students majoring in writing, music, dance or drama.

Alice Miller Memorial Scholarship Fund (1989)
Preference to pre-medical students.

Ferry Starr Morgan Fund (1959)
For a student majoring in music or philosophy.

Lawrence Morris Fund (1968)
Preferably for a nominee of the New York City Mission Society.

Ruth Day Moser Fund (1983)
For seniors majoring in sociology.

Lucy Moses Fund (1975)
For a premedical student. See Prizes, page 295.

Ann Newman Fund (1986)
For study abroad.

The New York Times Fund (1990)
For minority students.

Julia Fisher Papper Fund (1974)
For a senior of superior academic standing and high motivation.

Mary Barstow Pope Fund (1913)
For a nominee of a self-perpetuating committee representing the founders.

Public Service Fund (1934)
By the Women's Organization for National Prohibition Reform for students in their junior or senior years who show special promise for public service.

Lucille Pulitzer Fund (1899)
Three are restricted to students from the City of New York, eight are for resident students.

Gladys A. Reichard Anthropology Scholarship Fund (1992)
For students majoring in anthropology or, if there are no such eligible students, for students majoring in other social sciences.

Marie Reimer Fund (1953)
See Prizes, page 295.

Amelia Agostini de del Rio Fund (1955)
For a student from Puerto Rico or a student who is majoring in Spanish.

Lesley Jane Rosen Memorial Fund (1975)
For a student who shows leadership quality and whose subject of interest is urban studies and/or political science.

Dr. Harry Rosenstein Fund (1967)
For a premedical student.

Doris Schloss Rosenthal Fund (1981)
For students majoring in courses in the Arts.

Joan Rosof Fund (1964)
For students from the State of New York.

Felix St. George Scholarship (1955)
For an incoming freshman studying physics, chemistry, or biology.

Dorothy K. Scheidell Fund (1965)
Preferably for premedical students.

Lillian Schoedler Fund (1967)
For students who show promise of civic leadership.

SCHOLARSHIP FUNDS

Margarete Schwabe Fund (1974) <i>For premedical students with outstanding ability and idealism.</i>	Clara Bittenwieser Unger Memorial Fund (1938) <i>For a senior in political science who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution.</i>
Ruth Gould Scoppa '39 Fund (1985) <i>Preferably for a student majoring in English.</i>	Helen Elizabeth Vosburgh Fund (1934) <i>Preference to a self-supporting student.</i>
Roslyn Schiff Silver Scholarship Program (1982) <i>For junior and senior students preparing for careers in medical research.</i>	Mary Voyse Fund (1989). <i>For a student from Yonkers.</i>
Clarice Ann Smith Fund (1973) <i>For students of literature and composition.</i>	Walter A. Wagener Memorial Fund (1984) <i>For students majoring in a field of the arts.</i>
Marion Wesley Smith Fund (1978) <i>For students majoring in Anthropology.</i>	Gertie Emily Gorman Webb Fund (1953) <i>For a nominee of the Department of History.</i>
Hilda Staber Fund (1967) <i>For foreign students.</i>	May Hessberg Weis Fund (1981) <i>For students in environmental ethics and conservation.</i>
Estella Raphael Steiner Fund (1972) <i>For a senior in Biological Sciences who plans to engage in research in that field.</i>	Esther Lensh Weisman Fund (1979) <i>Preferably for a student majoring in English.</i>
Beatrice L. Stern Memorial Fund (1977) <i>For juniors and seniors in the life sciences or in the area of intergroup relations with special emphasis on those problems affecting minority welfare and acceptance in the American scene.</i>	Marian Churchill White Fund (1975) <i>For the winner of the Marian Churchill White Prize (see p. #) or an alternate with similar qualifications.</i>
Marion Levi Stern Fund (1977) <i>Preferably for students in the social sciences.</i>	Allison Wier Fund (1977) <i>For students who are residents of Westchester County.</i>
Simon and Elaine Strauss Fund (1981) <i>For disabled students.</i>	Elsa P. Wunderlich Fund (1978) <i>For a German exchange student.</i>
Emma A. Tillotson Fund (1910) <i>For a sophomore of exceptionally high standing.</i>	Richard P. Youtz Fund (1987) <i>For students in the Resumed Education Program.</i>
	Alma Gluck Zimbalist Fund (1940). <i>For students in political science.</i>
	Gertrude Bunger Zufall Fund (1987) <i>For a senior pre-medical student. See Prizes, page 295.</i>

LOAN FUNDS

The following loan funds are administered by the Committee on Financial Aid in accordance with terms specified by the donors and are regularly assigned as part of students' financial aid awards.

Associate Alumnae Student Loan Fund	Pauline Hirschfeld Loan Fund
Barnard College Club of Cleveland Loan Fund	Gertrude C. Hitchcock Loan Fund
Barnard College Loan Fund	Adelaide Le Ciercq Loan Fund
Ann Susan Becker Memorial Loan Fund	Swope Loan Fund
Thomas F. Clark Student Fund (1928)	Tudor Foundation Student Loan Fund
Marilyn Chin Loan Fund	

HONORS

The following awards were established to honor those who have shown exceptional distinction in their fields of study and are administered according to the provisions of their respective donors.

FELLOWSHIPS

Associate Alumnae of Barnard College Graduate Fellowship (1963)

For a graduate who shows exceptional promise in her chosen field of work. Information and applications may be obtained in the Alumnae Office.

Anne Davidson Fellowship (1971)

For graduating seniors who will pursue graduate study in conservation at a university of approved standing.

George Welwood Murray Graduate Fellowship (1930)

For graduating seniors who show promise of distinction in the humanities and/or the social sciences and who will pursue graduate study at a university or college of approved standing.

Lillian Niederman Fellowship Award (1984)

By Doctor Miriam S. Harris in memory of her mother, Lillian Niederman Shapiro. For a graduating senior who gives promise of distinction as physician and humanist.

Josephine Paddock Fellowship (1976)

For graduating seniors who show promise of distinction in such field of graduate study in art as the faculty shall determine. Holders are to pursue studies preferably abroad at a college or university of approved standing.

Grace Potter Rice Fellowship (1935)

For graduating seniors who show promise of distinction in the natural sciences or mathematics and who will pursue graduate study at a university or college of approved standing.

Alpha Zeta Club Graduate Scholarship (1936)

For graduating seniors who show promise of distinction or to outstanding recent Barnard graduates who are candidates for higher degrees.

William Mason Scholarship (1928)

Awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music.

GENERAL

Estelle M. Allison Prize (1937)

For excellence in literature.

Mary E. Allison Prize (1937)

For general excellence in scholarship.

Annette Kar Baxter Memorial Fund Prize (1984)

For juniors who have distinguished themselves in the study of some aspect of women's experience.

Frank Gilbert Bryson Prize (1931)

For a senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during the college years.

Eleanor Thomas Elliott Prizes (1973)

Two prizes to juniors chosen by the Honors Committee from among the five most outstanding students in the class based upon overall academic record, integrity, and good citizenship in the College.

Katherine Reeve Girard Prize (1964)

For a student whose interests are in the international aspects of a major.

Ann Barrow Hamilton Memorial Prize in Journalism (1978)

For a graduating senior who will pursue a career in journalism.

Alena Wels Hirschorn Prize (1986)

For a senior majoring in economics, with preference for a student who has a strong interest in English literature and/or in pursuing a career in journalism.

Lucyle Hook Travel Grants (1987)

To promising individuals with enriching, eclectic projects who demonstrate originality and self-direction.

Jo Green Iwabe Prize (1986)

To a student with a disability for active participation in the academic and extracurricular life of the College.

Ethel Stone LeFrak Prize (1986)

For excellence in a field of the arts.

Harry Salzman Internship Fund (1982)

An internship in Washington, D.C.

HONORS

BY ACADEMIC AREA

Schwimmer Prize (1986)

For an outstanding graduating senior in the humanities.

Bernice G. Segal Summer Research Internships (1986)

One or more internships for supervised research in the sciences during the summer.

Marian Churchill White Prize (1975)

For an outstanding sophomore who has participated actively in student affairs.

PREMEDICAL

Helen R Downes Prize (1964)

For graduating seniors who show promise of distinction in medicine or the medical sciences.

Ida and John Kauderer Prize (1973)

For premedical students majoring in chemistry.

Lucy Moses Award (1975)

For a premedical student likely to provide service to the medically underserved.

Gertrude Bunger Zufall Award (1987)

For a premedical student entering her senior year.

ART HISTORY

Nancy Hoffman Prize (1983)

For students who plan to enter museum or gallery work or art conservatorship.

Virginia B. Wright Art History Prize (1969)

For promising seniors majoring in art history.

BIOLOGICAL SCIENCES

Edna Henry Bennett Memorial Grants (1927)

For work at a biological laboratory offering summer courses.

Herbert Maule Richards Grants (1933)

For botanical research, under the direction of an approved institution.

Donald and Nancy Ritchie Grants (1979)

For biological study or research.

Hermann Botanical Prize (1892)

For an undergraduate student proficient in biology.

Spiera Family Prize (1986)

For promise of excellence by a student majoring in biological sciences.

Constance Von Wahl Prize (1915)

For advanced work in biology.

CHEMISTRY

American Chemical Society's Division of Analytical Chemistry Award

For outstanding work in analytical chemistry.

American Chemical Society's Division of Polymer Chemistry Award

For outstanding work in organic chemistry.

American Institute of Chemists, New York Chapter Prize

For an outstanding student of chemistry.

CRC Press First-Year Chemistry Achievement Award

For outstanding achievement in first-year chemistry.

Marie Reimer Scholarship Fund Prize (1953)

Awarded at the end of the junior year to an outstanding major in chemistry.

ECONOMICS

American Statistical Association, New York Area Chapter Prize (1960)

For an outstanding student in statistics.

Alena Wels Hirschorn Prize (1986)

To a junior for the best essay on the subject of domestic or international economics.

Beth Niemi Memorial Prize (1981)

For an outstanding senior majoring in economics.

Katharine E. Provost Memorial Prize (1949)

For superior work by an undergraduate major in economics.

Sylvia Kopald Selekmán Prize (1960)

For the first-year student who is doing the best work in introductory economics.

EDUCATION

Stephanie Kossoff Prize (1972)

For the student who has made the most noteworthy contribution or meaningful endeavor in childhood education.

ENGLISH

Edward L. Bernays Continuum Prize (1992)

For the Barnard student judged to have written the best short piece, fiction or non-fiction.

Saint Agatha Muriel Bowden Memorial Prize (1971)

For superior proficiency in the study of Chaucer and medieval literature.

W. Cabell Greet Prize (1974)

For excellence in English.

William Haller Prize (1987)

For excellence in the study of English literature.

Amy Loveman Memorial Prize (1956)

For the best original poem by an undergraduate.

Lenore Marshall Barnard Prizes (1975)

For both poetry and prose of distinction.

Sidney Miner Poetry Prize (1962)

For the senior major who has shown distinction in the reading, writing, and study of poetry.

Peter S. Prescott Prize for Prose Writing (1992)

For a work of prose fiction which gives the greatest evidence of creative imagination and sustained ability.

Helen Prince Memorial Prize (1921)

For excellence in dramatic composition.

Stains-Berle Memorial Prize in Anglo-Saxon (1968)

For excellence in Anglo-Saxon language and literature.

Academy of American Poets Prize (Columbia University)

For the best poem or group of poems by a student.

Bunner Medal (Columbia University)

To the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature.

Helene Searcy Puls Prize (1984)

For the best poem in an annual student competition.

Howard M. Teichmann Writing Prize (1986)

To a graduating senior for a written work or body of work that is distinguished in its originality and excellent in its execution.

Van Rensselaer Prize (Columbia University)

To the candidate for a Columbia degree who is the author of the best example of English lyric verse.

George Edward Woodberry Prize (Columbia University)

To an undergraduate student of the University for the best original poem.

ENVIRONMENTAL SCIENCE

Lillian Berle Dare Prize (1974)

For the most proficient Barnard senior who will continue to study in geography or a related field.

Henry Sharp Prize (1970)

For an outstanding student majoring in environmental science.

FRENCH

Helen Marie Carlson French Prize (1965)

For the best composition in fourth-term French.

Isabelle de Wyzewa Prize (1972)

For the best composition in the French course, *Masterpieces of Literature, from the Middle Ages to the Twentieth Century*.

Frederic G. Hoffherr French Prize (1961)

To a student in intermediate French for excellence in oral French.

Linda Joan Israel Prize in French (1977)

To a French major, preferably a senior, for work done in *Advanced Oral French* or *Advanced Translation into French*.

Eleanor Keller Prizes (1968)

For juniors in French literature and seniors in French culture.

Rosemary Thomas Prize in French (1966)

For evidence of a special sensitivity and awareness in the study of French poetic literature.

GERMAN

Dean Prize in German (1952)

For the senior who has throughout college done the best work in German language and literature.

HONORS

German Scholarship Fund Prize (1950)

Awarded at the end of the junior year to an outstanding major in German.

Louise Stabenau Prize in German (1988)

Awarded to a junior or senior major for excellence in oral German.

GREEK AND LATIN

John Day Memorial Prize (1986)

For a high-ranking sophomore in the field of Greek and Latin.

Earle Prize in Classics (Columbia University)

For excellence in sight translation of passages of Greek and Latin.

Benjamin F. Romaine Prize (Columbia University)

For proficiency in Greek language and literature.

Jean Willard Tatlock Memorial Prize (1917)

For the undergraduate student most proficient in Latin.

HISTORY

Eugene H. Byrne History Prize (1960)

For superior work by a history major.

Jenny A. Gerard Medal (1908)

For the student who is most proficient in Colonial history.

Ellen Davis Goldwater History Prize (1982)

For superior work by a history major.

ITALIAN

Bettina Buonocore Salvo Prize (1966)

For a student of Italian.

Speranza Italian Prize (1911)

For excellence in Italian.

MATHEMATICS

Margaret Kenney Jensen Prize (1973)

To first-year students, sophomores, and juniors for excellence in mathematics.

Kohn Mathematical Prize (1892)

To a senior for excellence in mathematics.

MUSIC

Robert Emmett Dolan Prize (Columbia University)

To a student in any division of the University for instruction on a chosen musical instrument.

Ethel Stone LeFrak Prize (1986)

For a graduating senior whose creative writing in music shows promise of distinction.

ASIAN-MIDDLE EASTERN CULTURES

Taraknath Das Foundation Prize in Oriental Studies (Columbia University)

To a student of Barnard College, Columbia College, or the School of General Studies, for excellence in Oriental Studies.

PHILOSOPHY

William Pepperell Montague Prize (1949)

For promise of distinction in the field of philosophy.

Gertrude Braun Rich Prize (1986)

For promise of excellence by a student majoring in philosophy.

PHYSICAL EDUCATION

Margaret Holland Bowl (1974)

For excellence in leadership and participation in recreation and athletics.

Marion R. Philips Scholar-Athlete Award (1981)

To the senior female winner of a varsity letter who has achieved the highest cumulative academic average and who has participated on a Columbia University team for at least two years.

Seven Sisters Senior Scholar-Athlete Award (1988)

For scholarly achievement and participation in Seven Sisters Competition.

Tina Steck Award (1980)

For the most outstanding member of the Swimming and Diving Team.

PHYSICS

Henry A. Boorse Prize (1974)

To a graduating Barnard senior, preferably a major in the department, whose record in physics shows promise of distinction in a scientific career.

POLITICAL SCIENCE

Phoebe Morrison Memorial Prize (1969)

For a political science major planning to attend law school.

James Gordon Bennett Prize (Columbia University)

For the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States.

Caroline Phelps Stokes Prize (Columbia University)

For the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work.

PSYCHOLOGY

American Statistical Association, New York Area Chapter Prize (1960)

See Economics listing.

Ida Markewich Lawrence Prize (1982)

For the best paper in psychology, preferably child psychology, by a major.

RELIGION

Samuel Dornfield Prize (1979)

For work in Old Testament or Ancient Near Eastern Studies that reflects special sensitivity and academic excellence.

Caroline Gallup Reed Prize (1916)

For outstanding work either in the field of the origin of Christianity and early church history or in the general field of the history and theory of religion.

RUSSIAN

Alice Levin Sokolik Prize in Russian (1976)

For the student who, in the course of her studies, has demonstrated the greatest love for the Russian language and literature.

SPANISH

John Bornemann Prize in Spanish (1976)

For superior performance in the first- or second-year language courses.

Eugene Raskin Prize

For the best essay in fourth-term Spanish.

Spanish Prize (1959)

For a Spanish major who has done the most distinguished work in Spanish language and literature.

Ucelay Recitation Prize

For the best recitation of a poem or dramatic passage in Spanish.

Susan Huntington Vernon Prize (Seven Colleges)

For the best original essay written in Spanish by a senior whose native language is not Spanish.

THEATRE

Kenneth Janes Prize in Theatre (1987)

For a Barnard junior or senior who has contributed notably to the theatre program of the Minor Latham Playhouse.

URBAN AFFAIRS

Suzanne Farkas Urban Affairs Prize (1972)

For the best essay in Urban Affairs.

WOMEN'S STUDIES

Bessie Ehrlich Memorial Prize (1980)

For an oral history project concerning a female relative of a preceding generation, in conjunction with the Women's Studies Department.

Jane S. Gould Prize (1982)

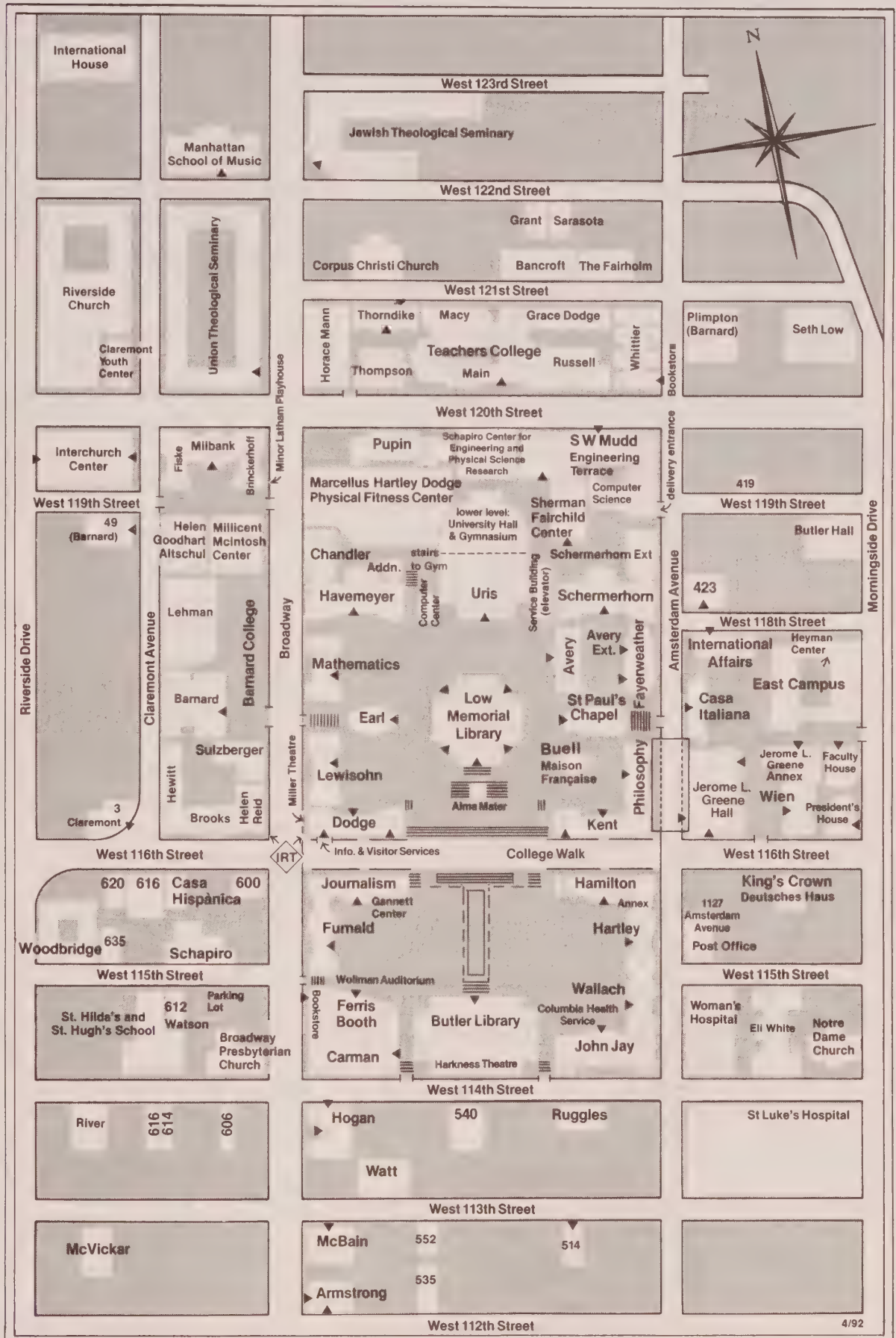
For an outstanding senior essay by a Women's Studies major.

	1889 to	1899 to	1909 to	1919 to	1929 to	1934 to	1944 to	1954 to	1964 to	1974 to	1984 to	1989 to	1990 to	1991 to
	1890	1900	1910	1920	1930	1935	1945	1955	1965	1975	1985	1990	1991	1992
Undergraduates, Regular														
Seniors	—	40	62	87	227	181	208	245	355	572	559	538	566	577
Juniors	—	40	122	190	237	220	314	340	414	554	563	527	546	494
Sophomores	—	37	109	193	247	226	314	317	391	488	512	552	500	553
First-year Students	14	54	188	224	311	267	324	304	415	437	531	487	544	495
Unclassified Students	—	—	—	—	54	103	56	1	8	—	—	—	—	—
	14	171	481	694	1076	997	1216	1207	1583	2051	2165	2104	2156	2119
Special Students														
Matriculated	—	21	24	39	—	—	—	—	—	—	—	—	—	—
Nonmatriculated	—	—	30	22	28	29	21	20	19	33	22	18	18	15
Departmental (1889-1896)	22	—	—	—	—	—	—	—	—	—	—	—	—	—
Music Students (1896-1905, 1914-1915)	—	41	—	—	—	—	—	—	—	—	—	—	—	—
	22	62	54	61	28	29	21	20	19	33	22	18	18	15
Graduate Students														
(1890-1900)	—	82	—	—	—	—	—	—	—	—	—	—	—	—
Total Registration	36	315	535	755	1104	1026	1237	1227	1602	2084	2187	2122	2174	2134
Degrees Conferred														
A.B.	—	39	88	139	247	221	270	258	367	497	612	541	528	—
B.S. (1909-1918)	—	18	2	5	—	—	—	—	—	—	—	—	—	—
A.M. (1898-1900)	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Ph.D. (1899-1900)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

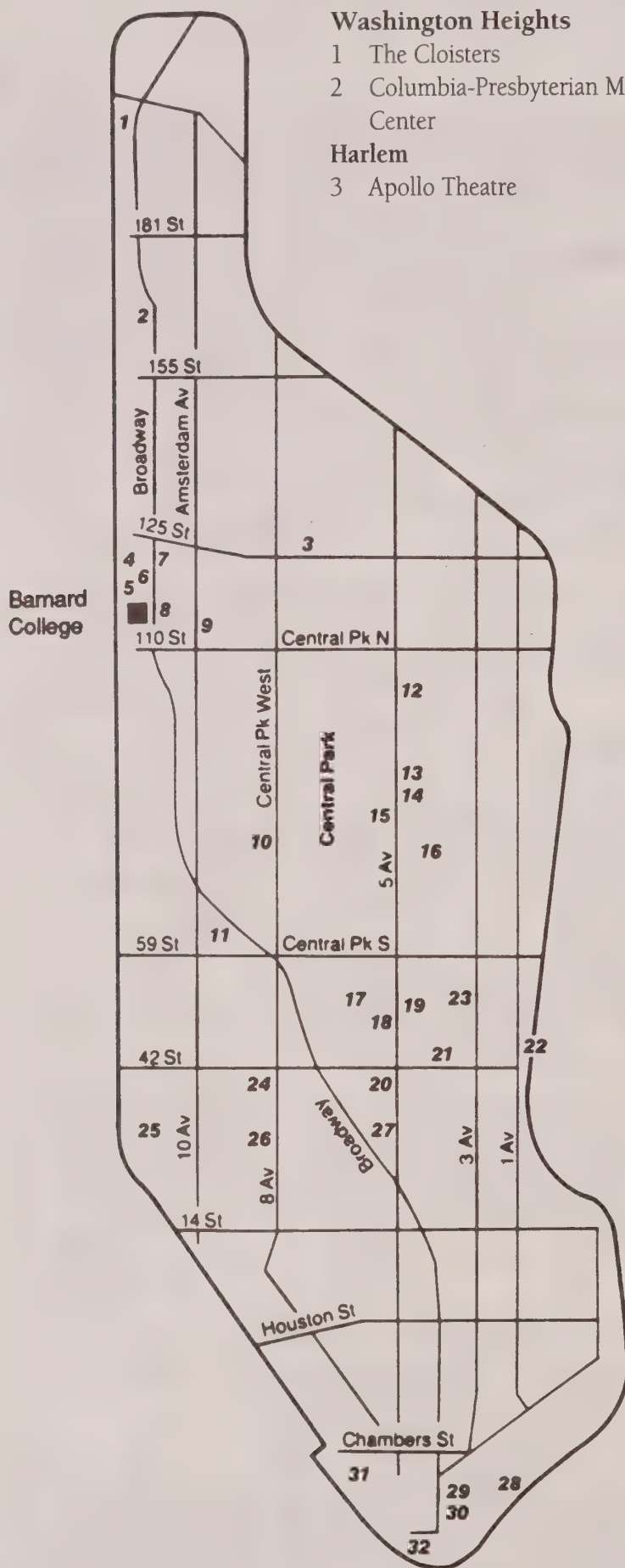
Total Bachelor's Degrees conferred 1893-1991: A.B., 26,862, B.S., 77
These figures represent registration in the Autumn Term.

BARNARD COLLEGE

COLUMBIA UNIVERSITY THE MORNINGSID CAMPUS & ENVIRONS



NEW YORK CITY



Washington Heights

- 1 The Cloisters
- 2 Columbia-Presbyterian Medical Center

Harlem

- 3 Apollo Theatre

Morningside Heights

- 4 Manhattan School of Music
- 5 Riverside Church
- 6 Union Theological Seminary
- 7 Jewish Theological Seminary
- 8 Columbia University
- 9 Cathedral of St. John the Divine

Upper West Side

- 10 Museum of Natural History
- 11 Lincoln Center

Upper East Side

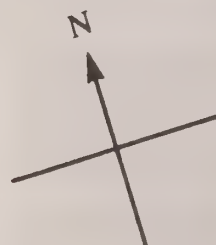
- 12 Museum of the City of New York
- 13 Cooper Hewitt Museum
- 14 Guggenheim Museum
- 15 Metropolitan Museum of Art
- 16 The Whitney Museum

Midtown

- 17 Museum of Modern Art
- 18 Rockefeller Center
- 19 St. Patrick's Cathedral
- 20 N.Y. Public Library
- 21 Grand Central Station
- 22 United Nations
- 23 Citicorp Center
- 24 Port Authority Bus Terminal
- 25 Jacob Javits Convention Center
- 26 Pennsylvania (Train) Station and Madison Square Garden
- 27 Empire State Building

Wall Street Area

- 28 South Street Seaport
- 29 Wall Street
- 30 New York Stock Exchange
- 31 World Trade Center
- 32 Battery Park



INDEX

Achievement Tests.....	18	Examinations.....	49
Adding Courses.....	47	Deferred and Make-up.....	50
Administration, Officers of.....	278	Final.....	49
Admission.....	18	Placement.....	49
Advanced Placement.....	21	Fees.....	23
<i>see also individual department</i>		Fellowships, Honors.....	295
Advisers.....	27	Financial Aid.....	26
African (Pan) Studies.....	196	First-Year Class Dean.....	27
Alumnae, Associate.....	283	First-Year Seminar Program.....	31, 144
American Studies.....	56	Foreign Area Studies.....	151
Ancient Studies.....	59	Foreign Language Requirement.....	32
Anthropology.....	60	French.....	153
Arabic <i>see</i> Asian and Middle Eastern Cultures		First-Year Application Procedure.....	18
Architecture.....	68	German.....	162
Art History.....	71	Government, Student.....	14
Asian and Middle Eastern Cultures.....	79	Grading System.....	51
Astronomy.....	206	Graduate Record Examination (GRE).....	50
Athletics.....	14	Graduate School Adviser.....	28
Attendance.....	48	Graduation Requirements <i>see</i> Degree Requirements	
Auditing.....	45	Handicapped Students <i>see</i> Disabled Students	
Barnard Alumnae Admissions Representatives.....	284	Health Services.....	29
Basic Requirements.....	31	Hebrew <i>see</i> Asian and Middle Eastern Cultures	
Biochemistry.....	96	Higher Education Opportunity Program.....	28
Biological Sciences.....	86	Hindi <i>see</i> Asian and Middle Eastern Cultures	
Biopsychology.....	95	History.....	166
Calendar, College.....	6	Holidays.....	48
Career Services, Office of.....	29	Honors	
Centennial Scholars Program.....	19, 38	Academic.....	53
Center for Research on Women.....	13	Prizes.....	295
Chemistry.....	96	Honor System.....	15
Chinese <i>see</i> Asian and Middle Eastern Cultures		Housing.....	16
Classics.....	102	<i>see also</i> Residence Halls	
Classification of Students.....	36	Incompletes.....	52
College, Description.....	10	Insurance.....	30
College Boards.....	18	International Students	
College Regulations, Exceptions.....	48	Admissions.....	20
Columbia University, Registration.....	46	Advisers.....	27
Commuters.....	17, 30	Internship Program.....	29
Computer Science.....	109	Interviews, Admissions.....	18
Computing Facilities.....	13	Italian.....	174
Courses of Instruction <i>see</i> department listings		Japanese <i>see</i> Asian and Middle Eastern Cultures	
Curriculum.....	31	Jewish Theological Seminary.....	42
Dance.....	115	Joint Degree Procedures.....	43
Dean's List.....	53	Juilliard School of Music.....	42
Deferred Enrollment.....	20	Laboratory Fees.....	25
Degree Requirements.....	31	Late Fees.....	24
Diploma Name Cards, Filing.....	37	Latin American Studies <i>see</i> Foreign Area Studies	
Disabled Students.....	29	Law School Admission Test (LSAT).....	50
Examinations.....	50	Leaves of Absence <i>see</i> Withdrawal	
Distribution Requirements.....	34	Libraries.....	12
Dormitories <i>see</i> Residence Halls		Linguistics.....	177
Double Degree Programs.....	43	Loan Funds.....	294
Dropping Courses.....	47	Major	
Early Decision Admission.....	19	Adviser.....	27
Economics.....	120	Requirements.....	31
Economic History.....	127	<i>see also individual departmental,</i>	
Education.....	128	<i>interdepartmental and program listings</i>	
English.....	132	Manhattan School of Music.....	42
Requirement.....	31	Map of Campus.....	301
Environmental Science.....	141	Map of New York City.....	302
European Studies <i>see</i> Foreign Area Studies		Married Students.....	17

INDEX

Mathematics	180	Romance Language and Literature Courses see French, Italian, and Spanish	
Medical Services <i>see</i> Health Services		Russian	237
Medieval and Renaissance Studies	186	Scholarship Funds	288
Minor Latham Playhouse <i>see</i> Theatre		Scholastic Aptitude Test (SAT).....	50
Minor Option	38	School of International Affairs <i>see</i> Joint Degree Programs	
<i>see also individual departmental,</i>		Senior Scholar Program	38
<i>interdepartmental and program listings</i>		Senior Class Dean	27
Music	189	Sociology	241
Oriental Studies <i>see</i> Asian and Middle Eastern Cultures		Soviet Studies <i>see</i> Foreign Area Studies	
Pan African Studies	196	Spanish	246
Pass/D/Fail Option	52	Statistics	
Phi Beta Kappa	54	Department	252
Philosophy	197	Enrollment Figures	300
Physical Education		Student Conduct	15
Athletics	14	Student Government and Organizations	14
Department	202	Student Records	30
Requirement	35	Study Abroad	41
Physics and Astronomy	206	Center for Classical Studies	42
Points for Degree	31	Reid Hall (Paris)	41
Political Science	213	Summer Study	40
Pre-Professional Adviser	28	Teachers College Courses	46
Pre-Professional Program Planning		Theatre	255
Journalism, Architecture, Social Work, and Business	40	Transcripts	53
Law	40	Transfer Credit	36
Medicine and Dentistry	39	Transfer Students	
Program Filing	46	Admission	20
<i>see also Late Fees</i>		Advisers	27
Psychology	222	Requirements	36
Quantitative Reasoning	230	Trustees, Board of	268
Readmission	48	Tuition	23
Recommendations	30	Urban Affairs	260
Refunds	24	Visiting Students	21
Registration	46	Visual Arts <i>see</i> Art History	
Religion	231	Withdrawal Between Terms and During the Term ...	6
Renaissance Studies <i>see</i> Medieval and Renaissance Studies		Wollman Library	12
Representatives, Barnard Alumnae Admissions	284	Women's Studies	262
Requirements for the Degree	31	Work Study	26
Residence Halls	16	Writing Fellows	39
Residence, Length of	35	Writing <i>see</i> English Department	
Resident Assistants	30		
Resumed Education	28		
Registration	46		

In accordance with its own values and with Federal, State, and City statutes and regulations, Barnard does not discriminate in admissions, employment, programs, or services on the basis of race, color, creed, national origin, sexual orientation, or disability.

This Catalogue is intended for the guidance of persons applying for or considering application for admission to Barnard and for the guidance of Barnard students and faculty. The Catalogue sets forth in general the manner in which the College intends to proceed with respect to the matters set forth herein, but the College reserves the right to depart without notice from the terms of this Catalogue. This Catalogue is not intended to be and should not be regarded as a contract between Barnard College and any student or other person.

Barnard College
Columbia University
3009 Broadway
New York, NY 10027-6598